

DERF

ELECTRONICS CORPORATION

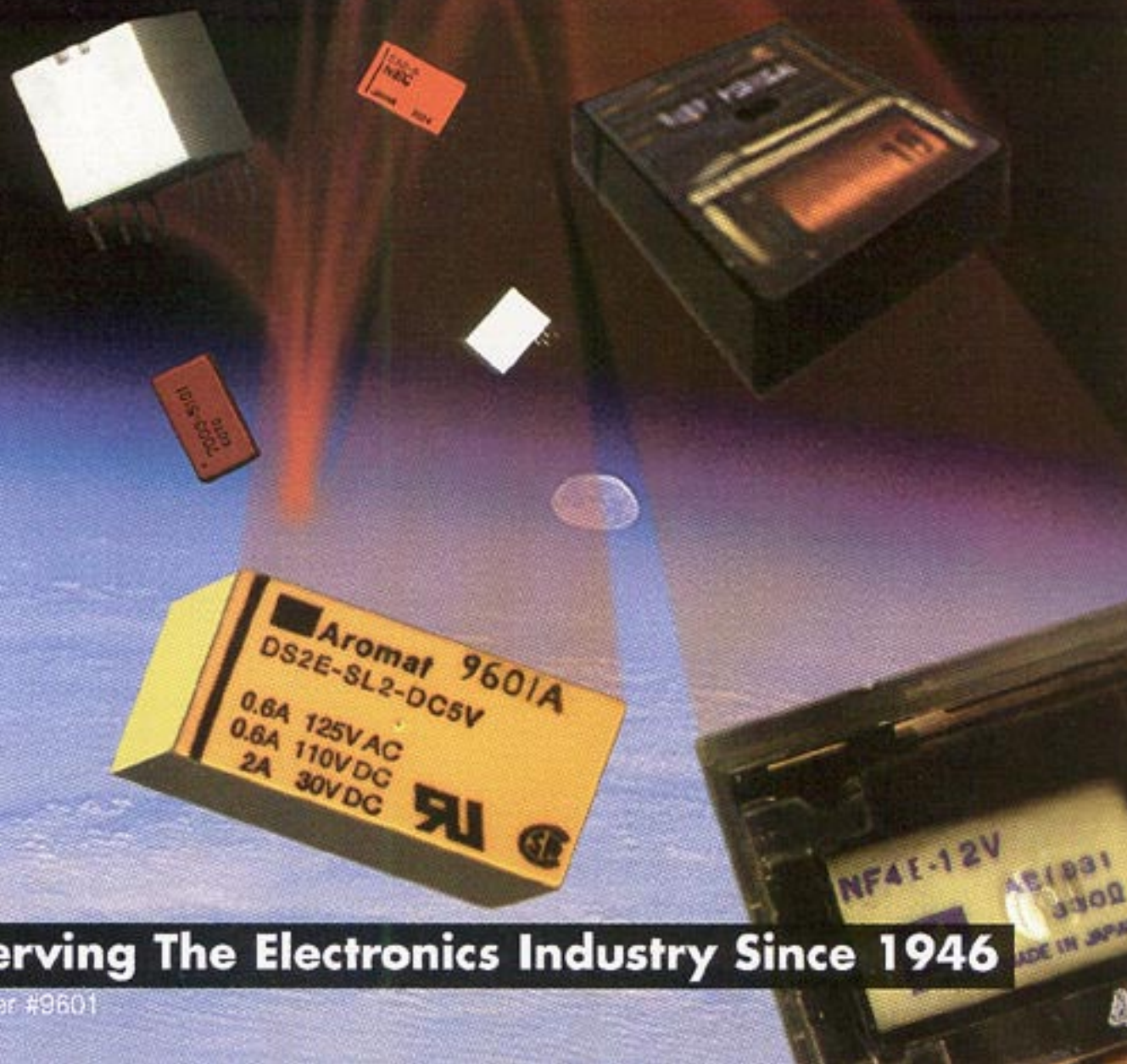


RELAYS

100% SATISFACTION GUARANTEED *

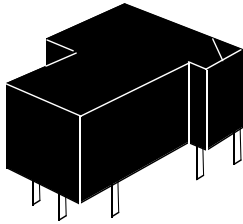
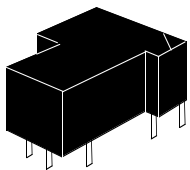
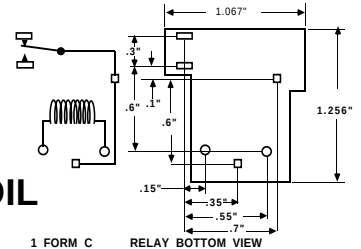
This Issue Includes:

Omron, Aromat, Fujitsu, P & B, GI Clare Relays,
Dip & Mini Dip Relays, General Purpose & High
Current, I/O Modules, Time Delay, Latching
Relays, Special Purpose Relays, Solid State, and
Much More.



Serving The Electronics Industry Since 1946

Flyer #9601

SUPER SPECIAL
MAGNECRAFT W90S5D12-12
T90 SERIES POWER RELAY
SPDT 20 AMP CONTACTS
SEALED P.C. BOARD MOUNT - 12VDC COIL
Stock # 33603 Price Ea./M .65 , Price Ea./10M .58

SEALED P.C. BOARD
SPST (N.O.) 30 AMP CONTACTS
T90 SERIES POWER RELAYS
5 TO 24 VDC COILS

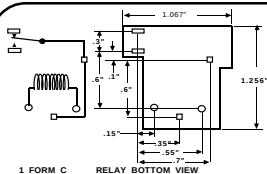
MFG	MFG #	Coil Volts	Stock #	Price Ea./C	/M
P&B	T90N1D125VDC	5VDC	4004	1.10	.89
HF	NT90RHASDC5	5VDC	29439	Call	
AZ	AZ2100-1A-12DE	12VDC	14107	.99	.82
SCHR	ZD322-012	12VDC	27500	.95	.80
HASC	HAT901ASDC12	12VDC	33551	.85	.72
SKY	SKJBS-1A	12VDC	25044	.78	.65
P&B	T90S1D12-12	12VDC	29350	1.10	.95
OMRN	G8P-1114P-US-24	24VDC	33851	1.10	.95

The T90 P.C. board relays are an inexpensive sealed for switching loads up to 30 amps.

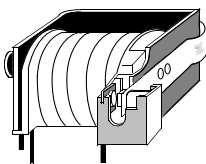
Typical applications: Automotive, appliances in heating and ventilating in the air conditioning markets.

Mechanical life expectancy: 10 million operations.

Electrical life expectancy: 100,000 operations at rated loads.


SEALED P.C. BOARD
SPDT 20 AMP CONTACTS
T90 SERIES POWER RELAYS
12 TO 24 VDC COILS

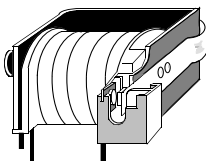
MFG	MFG #	Coil Volts	Stock #	Price Ea./C	/M
MAGN	W90S5D12-12	12VDC	33603	.85	.65
HASC	HAT901CSDC24	24VDC	31647	.85	.65
CDE	CDR801C00PN	24VDC	33852	.90	.78


OPEN FRAME
SPST (N.O.) 20 AMP CONTACTS
T90 SERIES POWER RELAYS
12 TO 48 VDC COILS

MFG	MFG #	Coil Volts	Stock #	Price Ea./C	/M
P&B	T90N5D12-12	12VDC	25265	1.10	.95
OMRN	G8P-111P-CF-US-24	24VDC	21449	.78	.68
P&B	T90N5D12-24	24VDC	35328	.95	.82
P&B	T90N5D12-48	48VDC	34964	.95	.82

The T90 P.C. board relays are an inexpensive open frame relay for switching loads up to 20 amps

Typical applications: Appliances in heating and ventilating in the air conditioning markets.


OPEN FRAME
SPST 30 AMP CONTACTS
T90 SERIES POWER RELAYS
12 TO 15 VDC COILS

MFG	MFG #	Coil Volts	Stock #	Price Ea./C	/M
SCHR	ZD122012	12VDC	32570	.85	
P&B	T90N1D1215-02	15VDC	14996	.50	

OVER 1 MILLION T90'S IN STOCK
IF YOU ARE USING T90'S CALL

AROMAT ULTRA MINIATURE & MINIATURE DIP RELAYS

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E-MAIL sales@derf.com

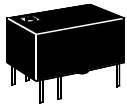
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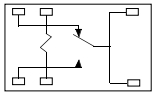
ULTRA-MINIATURE RELAYS SPDT 1 AMP CONTACTS AROMAT HD1 SERIES

Nominal operating power 280mW

Size : L=.472" W = .291" H= .327"
12mm 7.4mm 8.3mm

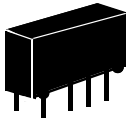
Weight : 1.7 gr.

Bifurcated contacts for High Reliability.



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
HD1E-M-DC1.5V	1.5VDC	280mW	8
HD1E-M-DC3V	3VDC	280mW	32
HD1E-M-DC5V	5VDC	280mW	89
HD1E-M-DC6V	6VDC	280mW	128
HD1E-M-DC9V	9VDC	300mW	270
HD1E-M-DC12V	12VDC	280mW	515
HD1E-M-DC24V	24VDC	280mW	2060

**Priced
From
1.20**



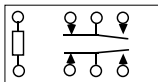
ULTRA-THIN RELAYS DPDT 2 AMP CONTACTS AROMAT TX SERIES

RELAY WITH 2,500 V SURGE

Sealed construction allows automatic washing

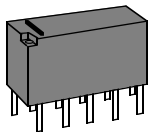
Size : L=.579" W = .289" H= .427"
14.7mm 7.35mm 10.85mm

Weight: Approx 2 gr.



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
TX2E-3V	3VDC	140mW	64
TX2E-4.5V	4.5VDC	140mW	145
TX2E-5V	5VDC	140mW	178
TX2E-6V	6VDC	140mW	257
TX2E-9V	9VDC	140mW	579
TX2E-12V	12VDC	140mW	1028
TX2E-24V	24VDC	200mW	2880
TX2E-48V	48VDC	260mW	8860

**Priced
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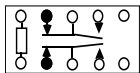
ULTRA-SLIM RELAYS DPDT 1 AMP CONTACTS AROMAT TN SERIES

Sealed construction allows automatic washing

Size : L=.551" W = .220" H= .386"
14mm 5.6mm 9.85mm

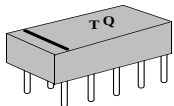
Weight: Approx 1.5 gr.

PCMT .100" x .100" grid spacing



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
TN2E-3V	3VDC	140mW	64.3
TN2E-4.5V	4.5VDC	140mW	145
TN2E-5V	5VDC	140mW	178
TN2E-6V	6VDC	140mW	257
TN2E-9V	9VDC	140mW	579
TN2E-12V	12VDC	140mW	1028
TN2E-24V	24VDC	200mW	2880

**Priced
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1.10**

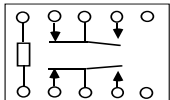


ULTRA-SMALL LOW PROFILE DIP RELAYS DPDT 1 AMP CONTACTS AROMAT TQ SERIES

Fits standard dip socket

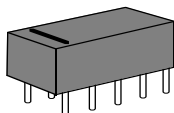
Sealed construction allows automatic washing

Size: L=.551" W= .354" H= .197"
14mm 9mm 5mm



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
TQ2E-3V	3VDC	140mW	64
TQ2E-4.5V	4.5VDC	140mW	144
TQ2E-5V	5VDC	140mW	178
TQ2E-6V	6VDC	140mW	257
TQ2E-9V	9VDC	140mW	579
TQ2E-12V	12VDC	140mW	1028
TQ2E-24V	24VDC	200mW	2880

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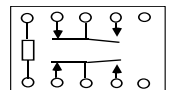
ULTRA-SMALL DIP RELAYS DPDT 1 AMP CONTACTS AROMAT TF SERIES

Very low coil power.

Fits standard dip socket

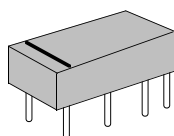
Sealed construction allows automatic washing

Size: L=.551" W = .354" H=.307"
14mm 9mm 7.8mm



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
TF2E-3V	3VDC	80mW	112
TF2E-4.5V	4.5VDC	80mW	253
TF2SA-4.5V SMD	4.5VDC	140mW	144
TF2E-5V	5VDC	80mW	312
TF2SA-5V SMD	5VDC	140mW	178
TF2E-6V	6VDC	80mW	450
TF2E-9V	9VDC	80mW	1012
TF2E-12V	12VDC	80mW	1800
TF2SA-12V SMD	12VDC	140mW	1028
TF2E-24V	24VDC	140mW	4100
TF2E-48V	48VDC	260mW	8860

**Priced
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1.55**



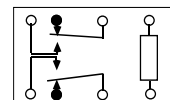
HIGHLY SENSITIVE DIP RELAYS DPDT 1 AMP CONTACTS AROMAT DF SERIES

Sealed construction allows automatic washing

Size : L=.630" W = .390" H= .276"
16mm 9.9mm 7.0mm

Weight: Approx 2.4 gr.

PCMT will fit standard 14 pin dip IC socket.



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DF2E-DC1.5V	1.5VDC	200mW	11.25
DF2E-DC3V	3VDC	200mW	45
DF2E-DC5V	5VDC	200mW	125
DF2E-DC6V	6VDC	200mW	180
DF2E-DC9V	9VDC	200mW	405
DF2E-DC12V	12VDC	200mW	720
DF2E-DC24V	24VDC	200mW	2880

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SPECIAL APPLICATION AROMAT RELAYS

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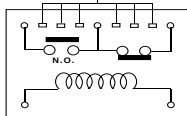
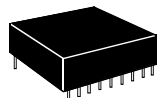
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SCHEMATIC (BOTTOM VIEW)
.100" GRID SPACING

HIGH FREQUENCY RF RELAYS TO 900 MHZ

Excellent high frequency characteristics

Isolation loss: 65 dB min. (900 MHz)

Insertion loss: 1.5 dB Max. (900 MHz)

Low VSWR: 1.2 max. (250 MHz)
2.0 max. (900 MHz)

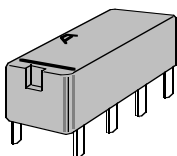
Compact size: L = .984" W = .827" H = .354"
25mm 21mm 9.3mm

Typical applications:

VTR, CATV, Transceivers & test equipment.

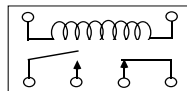
AROMAT MFG #	Coil Volts	Contacts Form Rating	Stock #	Price Ea./C Ea./M
RF1-DC9V-H1	9VDC	1 Form C 10mA @ 12VDC	4420	1.35 .95
RF1-DC12V	12VDC	1 Form C 10mA @ 12VDC	14225	Call
RF1R-DC12V*	12VDC	1 Form C 10mA @ 24VDC	9980	1.75 1.35

* OMRON = G4Y152P-12VDC Reverse contact schematic



I.C. DRIVEABLE RELAYS FOR SWITCHING 8 AMP LOADS

VERY LOW COIL POWER 240 mW
FOR SWITCHING HIGH CURRENT LOADS.
POLARIZED COIL
High shock and vibration resistant.

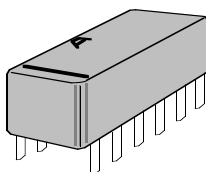


1FORM A 1 FORM B

Size: L = 1.220" W = .551" H = .433"
31mm 14mm 11.3mm

AROMAT MFG #	Coil Volts	Contacts	Stock #	Price Ea./C
ST1E-DC5V	5VDC	1 Form A / 1 Form B	13686	3.25
ST1E-L2-DC5V	5VDC	1 Form A / 1 Form B	2171	2.75
ST1E-DC12V	12VDC	1 Form A / 1 Form B	7945	3.25

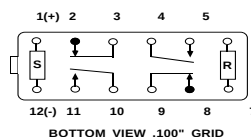
(*) =Dual Coil Latching . (see page 18 for definition of latching relays)



4 AMP HIGH DENSITY POLARIZED SENSITIVE 2 COIL LATCHING RELAY

100mW pick-up/200mW nominal operating power.
Wide switching range from 100uA to 4 Amps.
Dual-in line package .

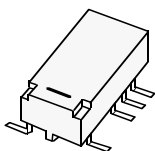
Size: L = 1.102" W = .472" H = .409"
28mm 12mm 10.4mm



BOTTOM VIEW .100" GRID

AROMAT Equivalent S2EB-L2-12V

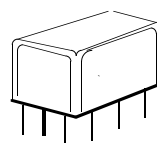
MFG #	Coils	Contacts	Stock #	Price
S2-L2-12V	12VDC	2 formA/2 form B	32691	3.75



HIGH CAPACITY MINIATURE RELAY 2 AMP DPDT CONTACTS

High surge voltage and high break down voltage.
Surface Mount size .591" x .291" x .323"
UL & CSA listed.

AROMAT MFG #	Coil	Contact Rating	Stock #	Price E/M
TX2SA-12V	12VDC	DPDT 2Amp	33653	1.26

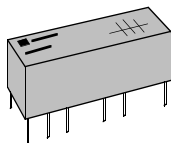


HALF SIZE SPST LATCHING RELAY AROMAT R1A-SL2D-5V

Metal shield, Sensitive Dual 5 vdc coils,
72 to 133 mW of coil power.

Size: L = .787" W = .394" H = .394"

Contacts * 1 form A switching down to 10 Micro Amps
High Speed Switching, TTL Direct drive possible.
Stock # 17690 Price Ea./C 1.50



POWER SAVING DPDT RELAY WITH BUILT-IN I.C.

Input Signal Processing and Amplification.

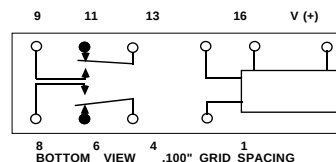
High Speed, High Sensitivity & Reliability.

Ultra Low operating power: (1/450 compared
with polarized nonlatching relays). Wider operating
voltage range.

1500 VRMS Isolation between coil & contacts.

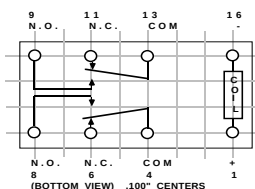
Size: L = 1.303" W = .390" H = .386"

33.1mm 9.9mm 9.8mm



8 BOTTOM 6 VIEW 4 .100" GRID SPACING 1

AROMAT MFG #	Coil	Contacts Rating	Stock #	Price
DS2-C-12V	12VDC	DPDT 2 Amp	12094	Call



8 (BOTTOM VIEW) .100" CENTERS

TELECOM DIP RELAY DPDT - 2 AMP CONTACTS DSB2E SERIES

4000V Breakdown

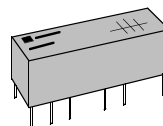
Bifurcated contacts.

Brown sealed, Polarized coil.

Size: L = .787" W = .390" H = .366"

Fits 16 pin dip socket

AROMAT MFG #	Coil Volts	Coil Power	Stock #	Price Ea./M
DSB2E-S-DC5V	5VDC	360mW	25249	Call



SMART RELAY I.C. BUILT-IN RELAY FOR INTELLIGENT CONTROL INTERFACE

Signal Processing IC for Intelligent control.
Input signal processing and amplification.

Negative logic operation, 100 micro-second input pulse is required to
activate the contacts.

Noise and Bounce Cancelling circuits. Power Failure protection.
Threshold Levels can be externally set.

AROMAT MFG #	Input Volts / power	Contacts Form * Rating	Stock #	Price
ST2-C3-5V	5V Logic 200ua	2 Form A 8 A	6000	Call

AROMAT HB & DS SERIES RELAYS

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E-MAIL sales@derf.com

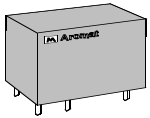
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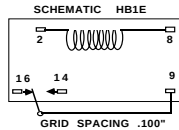
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(Outside NY)
1-800-874-3373
(Outside FL)



SENSITIVE SUBMINIATURE RELAYS HB1E SERIES SPDT 2 AMP CONTACTS

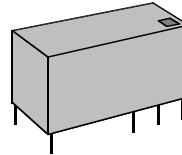
Size : L = .787" W = .433" H = .642"
20mm 11mm 16.3mm

Simple mechanism for stable quality, Plugs into 16-pin dip socket .



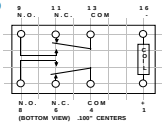
AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
HB1E-DC3V	3VDC	360mW	25
HB1E-DC5V	5VDC	360mW	69
HB1E-DC6V	6VDC	360mW	100
HB1E-DC9V	9VDC	360mW	225
HB1E-DC12V	12VDC	360mW	400
HB1E-DC18V	18VDC		
HB1E-DC24V	24VDC	360mW	1600
HB1E-DC48V	48VDC	384mW	6000

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MINIATURE DIP RELAYS DPDT - 2 AMP CONTACTS DS2 SERIES

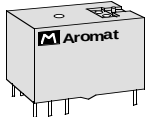
1500V FCC Surge satisfied
Bifurcated contacts.
Amber sealed



Size: L = .787" W = .390" H = .366" Fits 16 pin dip socket

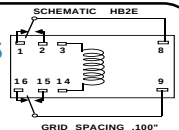
AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS2E-S-DC1.5V	1.5VDC	200mW	11.3
DS2E-M-DC1.5V	1.5VDC	400mW	5.63
DS2E-S-DC3V	3VDC	200mW	45
DS2E-M-DC3V	3VDC	400mW	22.5
DS2E-S-DC5V	5VDC	200mW	125
DS2E-M-DC5V	5VDC	400mW	62.5
DS2E-S-DC6V	6VDC	200mW	180
DS2E-M-DC6V	6VDC	400mW	90
DS2E-S-DC9V	9VDC	200mW	405
DS2E-M-DC9V	9VDC	400mW	203
DS2E-S-DC12V	12VDC	200mW	720
DS2E-M-DC12V	12VDC	400mW	360
DS2E-S-DC24V	24VDC	200mW	2880
DS2E-M-DC24V	24VDC	400mW	1440
DS2E-S-DV48V	48VDC	200mW	11520
DS2E-M-DC48V	48VDC	400mW	5760

**Priced
From
.95**



SUBMINIATURE RELAYS HB2E SERIES DPDT 2 AMP CONTACTS

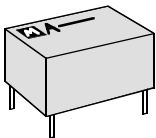
Size : L = .787" W = .433" H = .642"
20mm 11mm 16.3mm



AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
HB2E-DC3V	3VDC	576mW	15.6
HB2E-DC5V	5VDC	576mW	43.4
HB2E-DC6V	6VDC	576mW	62.5
HB2E-DC9C	9VDC	623mW	130
HB2E-DC12V	12VDC	576mW	250
HB2E-DC24V	24VDC	576mW	1000
HB2E-DC48V	48VDC	576mW	4000

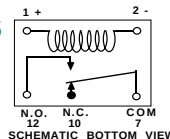
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**IF YOU DON'T SEE YOUR
AROMAT RELAY REQUIREMENT
LISTED PLEASE CALL**



MINIATURE DIP RELAYS SPDT - 2 AMP CONTACTS DS1 SERIES

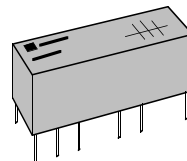
1500V FCC Surge satisfied
Bifurcated contacts.
Amber sealed



Size: L = .599" W = .390" H = .366" Fits 14 pin dip socket

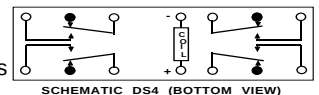
AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS1E-S-DC1.5V	1.5VDC	200mW	11
DS1E-M-DC1.5V	1.5VDC	400mW	5.6
DS1E-S-DC3V	3VDC	200mW	45
DS1E-M-DC3V	3VDC	400mW	22
DS1E-S-DC5V	5VDC	200mW	125
DS1E-M-DC5V	5VDC	400mW	62
DS1E-S-DC6V	6VDC	200mW	180
DS1E-S-DC6V	6VDC	400mW	90
DS1E-S-DC9V	9VDC	200mW	405
DS1E-M-DC9V	9VDC	400mW	203
DS1E-S-DC12V	12VDC	200mW	720
DS1E-S-DC12V	12VDC	400mW	360
DS1E-S-DC24V	24VDC	200mW	2880
DS1E-M-DC24V	24VDC	400mW	1440
DS1E-S-DC48V	48VDC	200mW	11520
DS1E-M-DC48V	48VDC	400mW	5760

**Priced
From
1.35**



MINIATURE DIP RELAYS 4PDT - 2 AMP CONTACTS DS4 SERIES

1500V FCC Surge
Bifurcated contacts
Amber sealed.



Size: L = 1.387" W = .390" H = .366" Fits 2 sets 14 pin dip socket

AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS4E-S-DC1.5V	1.5VDC	200mW	11
DS4E-M-DC1.5V	1.5VDC	400mW	5.6
DS4E-S-DC3V	3VDC	200mW	45
DS4E-M-DC3V	3VDC	400mW	22
DS4E-S-DC5V	5VDC	200mW	125
DS4E-M-DC5V	5VDC	400mW	62
DS4E-S-DC5V-R(rev.pol.)	5VDC	200mW	125
DS4E-S-DC6V	6VDC	200mW	180
DS4E-M-DC6V	6VDC	400mW	90
DS4E-S-DC9V	9VDC	200mW	405
DS4E-M-DC9V	9VDC	400mW	203
DS4E-S-DC12V	12VDC	200mW	720
DS4E-M-DC12V	12VDC	400mW	360
DS4E-S-DC24V	24VDC	200mW	2880
DS4E-M-DC24V	24VDC	400mW	1440
DS4E-S-DC48V	48VDC	200mW	11520
DS4E-M-DC48V	48VDC	400mW	6760

**Priced
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AROMAT LATCHING RELAYS SEE PAGE 18

AROMAT RELAYS



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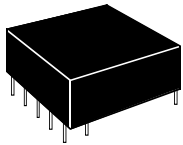
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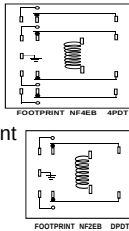
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FLAT PACK RELAYS **2 AMP CONTACTS** **AROMAT NFEB SERIES**

VERY LOW OPERATING POWER
LOW PROFILE - .402" HIGH, PC mount
LONG LIFE - HIGH RELIABILITY



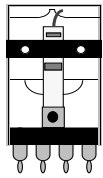
For other MFGs of flat pack relays see page 21

Size: NF2 L= 1.189"(30.2mm) x W= .787" (20.0mm) x H= .325" (10.8mm)

Size: NF4 L= 1.189"(30.2mm) x W= .969" (24.6mm) x H= .325" (10.8mm)

MFG #	Coil Volts	Coil ohms	Coil Power	Contacts	Price Ea./M
NF2EB-5V	5VDC	90	278mW	DPDT	3.25
NF4EB-5V	5VDC	53	472mW	4PDT	2.50
NF2EB-6V	6VDC	137	260mW	DPDT	1.75
NF4EB-6V	6VDC	90	400mW	4PDT	call
NF2EB-12V	12 VDC	500	290mW	DPDT	2.80
NF4EB-12V	12VDC	330	440mW	4PDT	call
NF2EB-24V	24 VDC	1200	290mW	DPDT	2.25
NF4EB-24V	24VDC	2000	480mW	4PDT	2.70
NF2EB-48V	48 VDC	7000	330mW	DPDT	1.50
NF4EB-48V	48VDC	42000	550mW	4PDT	2.70

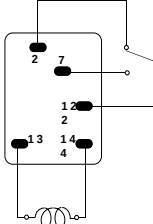
Note the above flat pack relays also available in unsealed version.



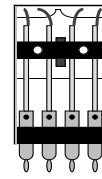
SPDT COVERED RELAY **10 AMP CONTACTS** **24VDC 650 ohm Coil** **AROMAT HC SERIES**

Terminal arrangement PCMount

Size: L = .1071" W = .819" H = .1386"



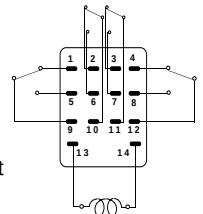
HC1-P-DC24V Stock # 4944 Price Ea./C 1.00 Ea./M .75



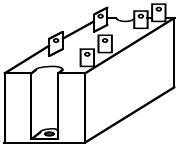
4PDT SEALED RELAY **5 AMP CONTACTS and** **24VDC 650 ohm Coil** **AROMAT HC SERIES**

Terminal arrangement PCMount

Size: L = .1071" W = .819" H = .1386"



HC4E-P-DC24V Stock # 21147 Price Ea./C 2.25 Ea./M 1.75



30 AMP LATCHING **SPST (NO) CONTACTS** **POWER RELAY**

(see page 18 for definition of latching relays)

Dual 12VDC Polarized 75 ohm coils

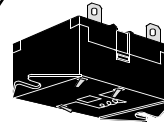
Contacts Rating 30 Amp @ 277 vac 2 HP @ 250 vac 1HP @ 125vac

Size: 1 15/16" x 1 1/4" x 1 3/4"

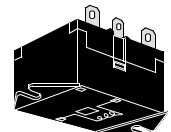
Mounting centers 1 9/16" Terminations 1/4" spade lugs

MFG Matsushita # JH1a-L2-DC12V

Stock # 17781 Price Ea. 3.00 Ea./C 1.95



25 AMP COMPACT **POWER RELAYS** **High Switching Capacity**



Suitable for air conditioners, dish washers, copiers, vending machines & dryers.

Two JA types : **TM** for direct chassis mounting & 1/4" quick connect terminals.

TMP for PC board mounting & 1/4" quick connect terminals.

AROMAT MFG #	Coil Volts	Contacts Form*	Rating	Stock #	Price Ea./C	Ea./M
JA1a-TM-AC12VP	12VAC	1 Form A	25 A @ 250 VAC	9379	1.25	.95
JA1a-TMP-DC12VP	12VDC	1 Form A	25 A @ 250 VAC	5433	1.25	.95
JA1a-TM-DC24V-P	24VDC	1 Form A	25 A @ 250 VAC	35205	1.25	.95

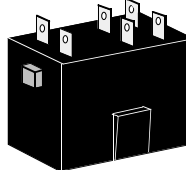
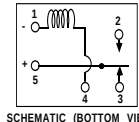


SUBMINIATURE RELAY **SPDT - 3 AMP CONTACTS** **HA1 SERIES**

Sensitive coil very low operating power 8 mA
Compact simple construction

Size: L = 1.043" W = .559" H = .697"

AROMAT MFG #	Coil Volts	Amber Sealed	Stock #	Price Ea./M
HA1E-AC115V	115VAC	Yes	34082	3.50



20 AMP AROMAT HEAVY DUTY **POWER RELAY, 120VAC COIL** **2 FORM Z CONTACTS**

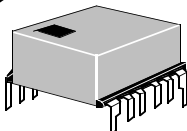
Typical applications:

Home appliances, office equipment, power devices, automatic vending machines, HVAC systems.

Size: L=2.047" x W=.1181" x H=2.224

Terminations .25" Quick Connects

MFG #	Stock #	Price Ea./M
VC20-2a-AC120V	34328	4.95



2 & 4 POLE **FLATPACK RELAYS** **AROMAT NC SERIES**

Bifurcated contacts for high reliability

Low operating power

Typical Applications: Tape recorders, Video recorders, Telecommunications & Computer peripherals.

AROMAT	Coil	Coil			Price
MFG #	Volts	Power	Contacts	Stock #	Ea./C
NC2ED-JPL2-DC5V	5VDC*	800mW	DPDT 3Amp	14531	Call
NC2ED-JPL2=DC12V12VDC*		800mW	DPDT 3Amp	23133	Call
NC4-JPL2-DC12V	12VDC*	1600mW	4PDT 4Amp	5866	Call

(*) = Dual Coil Latching. (see page 18 for definition of latching relays)

(*) = Dual Coil Latching. (see page 18 for definition of latching relays)



15 AMP DPST PCMT **COMPACT POWER RELAY**

High Switching Capacity

Size: L= 1.181" x W=.748" x H=1.197"

Suitable for copiers & vending machines.

AROMAT MFG #	Coil Volts	Contact Form	Rating	Stock #	Price Ea./M
JC2aJ-DC12V	12VDC	2 Form A	15 A	2645	1.25

RZ STYLE RELAYS

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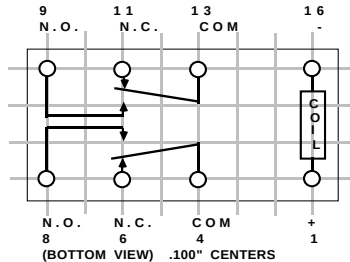
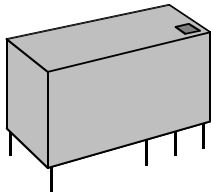
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MINI DIP DPDT RELAYS CONTACT RATING FROM 1 TO 2 AMPS

Size : L = .80", H = .415", W = .40"



Listing of equal foot print and function are the same with respect to pinouts.
Coil sensitivity, Resistance, Polarized coil must be specified.

MFG	MFG Series	Coil VDC	Coil mW	Coil Ohms	Contact Current	Price Ea./M
AROM	DS2E-M-DC5V	5 (P)	400	62	2A	
AROM	DS2E-S-DC5V	5 (P)	200	125	2A	
AROM	DS2E-M-DC6V	6(P)	400	90	2A	
AROM	DS2E-S-DC6V	6(P)	200	180	2A	
AROM	DS2E-M-DC9V	9(P)	400	203	2A	
AROM	DS2E-S-DC9V	9(P)	200	405	2A	
AROM	DS2E-M-DC12V	12(P)	400	360	2A	
AROM	DS2E-S-DC12V	12(P)	200	720	2A	
AROM	DS2E-M-DC24V	24(P)	400	1440	2A	
AROM	DS2E-S-DC24V	24(P)	200	2880	2A	
AROM	DS2E-M-DC48V	48(P)	400	5760	2A	
AROM	DS2E-S-DC48V	48(P)	200	11520	2A	
ALCA	MT2-12V	12	150	950	1A	.89
AZ	AZ830-2C-5DE	5(P)	400	62	2A	1.45
AZ	AZ830-2C-12DSE	12(P)	200	720	2A	1.45
AZ	AZ830-2C-48DE	48(P)	400	5760	2A	1.45
CII	MDS05	5	200	170	2A	.95
CLAR	LM12C00	6	N/A	70	1A	.82
CLAR	LM12E00	24	N/A	1100	1A	.82
CLAR	LM14E00	24	400	1100	2A	.98
CLAR	LM44A00	3	400	58	2A	.98
CLAR	LM44B00	5	400	62	2A	.98
CLAR	LM44C00	6	400	240	2A	.98
CLAR	LM44F00	48	400	7680	2A	.98
CLAR	LX200B00	5	200	125	2A	.85
CLAR	LX200C00	6	200	180	2A	.85
CLAR	LX200E00	24	200	2880	2A	.85
CLAR	LX200F00	48	200	11520	2A	.85
FJTS	FBR244ND003/02C	3	500	18	2A	.98
FJTS	FBR244ND005/02C	5	500	50	2A	.98
FJTS	FBR244ND006/02C	6	500	72	2A	.98
FJTS	FBR244ND009/02C	9	500	162	2A	.98
FJTS	FBR244ND012/02C	12	500	290	2A	.98
FJTS	FBR244ND024/02C	24	580	1150	2A	.98
FJTS	FBR244ND048/02C	48	580	4000	2A	.98
GRDN	1495DC5V	5	500	45	1A	.87
HASC	HAS112S9V	9	560	140	1.25A	.92
HASC	HAS112S12V	12	560	280	1.25A	.92
HASC	HAS112S24V	24	560	1070	2A	.92
IDEC	RW22G-5VDC	5(P)	200	125	2A	.75
ITT	RZ-5W	5	560	45	2A	.95
ITT	RZ-6	6	550	66	2A	.75
ITT	RZ-48-C	48	580	4000	2A	.95
MDTX	190-22E100	5	550	45	2A	.89

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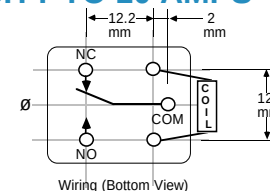
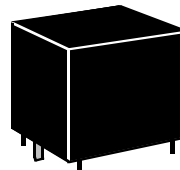
MFG	MFG Series	Coil VDC	Coil mW	Coil Ohms	Contact Current	Price Ea./M
NEC	MR62-5SR	5	550	42	2A	1.09
NEC	MR62-5UKSRY	5	400	65	2A	1.30
NEC	MR62-6SR	6	550	90	2A	1.09
NEC	MR6212USRY	12	400	360	2A	1.30
NEC	MR62-24USR	24	550	1350	2A	1.25
NEC	MR62-48FSR	48	550	5360	2A	1.25
NEC	MR602-5SR	5(P)	200	125	2A	1.18
NEC	MR602-12USR	12(P)	200	720	2A	1.18
NEC	MR602-24USRY	24(P)	200	2800	2A	1.18
OMRN	G2V-234P-US5VDC	5	380	69	1A	1.18
OMRN	G2VN-284P-US12V	12	360	400	1A	1.32
OMRN	G5V-2-DC12	12	500	288	2A	1.25
OMRN	G6A-234P-4.5VDC	4.5(P)	405	100	2A	1.00
OMRN	G6A-2-UA-006000	12(P)	200	900	2A	.95
OMRN	G6A-274PST40U	5(P)	400	62	2A	1.15
OMRN	G6A-234P-ST-US	9(P)	405	200	2A	1.15
OMRN	G6A-274P-ST15US	48(P)	150	15000	2A	1.00
OMRN	G5V-2-DC24	24	150	1152	2A	1.15
OMRN	G2V-234P-US48VDC	48(P)	150	15000	2A	.90
OMRN	G6A-2D34P-ST-US†	48(P)	220	9750	2A	.90
PED	51SB09T	9	200	405	1A	.90
PED	51SB12T	12	200	710	1A	.98
P&B	T80E11DCT-14-5V	5(P)	400	62	2A	1.25
P&B	T82N11D114-05	5	550	45	1.25A	1.15
P&B	T82N11D113-06	6	545	66	2A	1.25
P&B	T82N11D114-09	9	579	140	1.25A	1.15
P&B	T82N11D113-12	12	514	280	2A	1.35
P&B	T85N11D114-05	5	150	167	1.25A	1.15
P&B	T85N11D114-12	12	150	960	1.25A	1.15
SIEM	V23042	12(P)	250	600	2A	1.20
TAKA	RA4.5W-K	4.5(P)	200	135	2A	.95
TAKA	RY-5WZ-K-UL	5	560	45	2A	.95
TAKA	RA12W-K	12(P)	200	900	2A	.95
TAKA	RY24W-0H-K	24	200	2400	2A	.95

(P) = Polarized coil

(†) Contact MBB (make before-break)

SEE PAGE 18 FOR LATCHING SINGLE & DUAL RZ STYLE RELAYS.

AROMAT JS SERIES ICE CUBE SIZE RELAYS SPDT HIGH CONTACT CAPACITY TO 10 AMPS



Size: L = .866" x W = .630" x H = .630"

AROMAT MFG #	Coil Volts	Coil Ohms	Coil Power	Contact Form	Price Ea./M
JS1E-5V	5VDC	70	360mW	SPDT	.72
JS1E-6V	6VDC	100	360mW	SPDT	call
JS1E-9V	9VDC	225	360mW	SPDT	.68
JS1E-12V	12VDC	400	360mW	SPDT	.68
JS1E-24V	24VDC	1600	360mW	SPDT	.65
JS1E-48V	48VDC	6400	360mW	SPDT	call

ALSO AVAILABLE IN FORM A CONTACT (JS1a)

MINIATURE SPDT RELAYS



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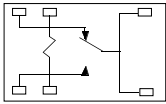
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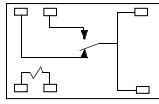
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(Outside FL)

MINI DIP MZ TYPE SPDT RELAYS

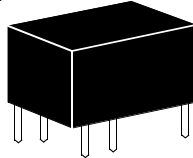
2 Amp CARRY CURRENT
LOW COST, HIGHLY RELIABLE



A Coil



B Coil

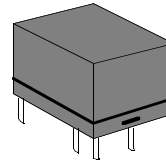


Size: 15.7mm (.62") x 10.9mm (.43") x 11.5mm (.45") .100" grid spacing

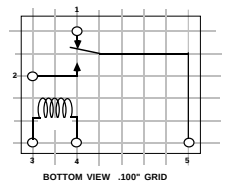
MFG	MFG Series	Coil VDC	Coil Type	Coil mW	Coil Ohms	Contact Current
BEST	BS-102-3VDC	3	A	360	25	3A
CII	MSL03	3	A	220	20	2A
STDN	232XAXFH-3D	3	A	200	45	1A
AZ	AZ5-5DE	5	A	400	56	1A
BEST	BS-102-5VDC	5	A	360	70	3A
CII	MSL05	5	A	220	56	2A
FJTS	FBR211NBD005	5	B	450	56	2A
FJTS	FBR211ED005	5	B	200	120	2A
OMRN	G2E-UA-DC5	5	A	450	55	1A
OMRN	G2E-184P-5VDC	5	B	450	56	1A
OMRN	G2E-134P-L-5VDC	5	A	400	55	1A
OMRN	G2E-134P-M-5VDC	5	A	400	55	1A
OMRN	G2E-UA-5DC	5	A	400	56	1A
ORIG	QUAT-SS-105D	5	A	450	80	1A
ORIG	OUA-SS105D	5	A	360	80	2A
P&B	T81S5D111-05	5	A	450	56	1A
STDN	232XAXFH-5D	5	A	200	120	1A
BEST	BS-102-6VDC	6	A	360	100	3A
CII	MSL06	6	A	220	80	2A
FJTS	FBR211NCD006	6	B	200	400	2A
FJTS	FBR211BD006	6	B	450	80	2A
GRDN	1505S-DC6V	6	A	N/A	84	1A
FEME	ESH0016	6	B	N/A		.5A
OMRN	G2E-6VDC	6	A	360	80	1A
BEST	BS-102-9VDC	9	A	360	220	3A
CII	MSL09	9	A	220	180	2A
FJTS	FBR211CD009	9	A	200	400	2A
FJTS	FBR211SCD009	9	A	200	400	2A
TAKA	MZ9HS-C	9*	B	200	400	2A
BEST	BS-102-12VDC	12	A	360	400	3A
CII	MSL12	12	A	220	320	2A
FJTS	FBR211NED012-M1	12	B	200	700	2A
FJTS	FBR211BD012-M	12	B	450	320	2A
FJTS	FBR211NBD012	12	B	450	320	2A
ITT	MZ12	12	B	200	700	1A
OMRN	G2E-12VDC	12	A	280	335	1A
P&B	T81H5D312-12	12	B	200	700	2A
STDN	232XAXH-12D	12	A	200	700	1A
TAKA	MZ-12HG	12	B	450	320	2A
STDN	232XAHFH-24D	24	A	200	2800	1A
BEST	BS-102-24VDC	24	A	360	1600	3A
CII	MSL24	24	A	220	1280	2A
FEME	ESA00124	24	B	N/A		.5A
FJTS	FBR211SBD024	24	B*	450	1280	2A
FJTS	FBR211SFD024	24	B	450	1300	2A
FJTS	FBR211NED024	24	B	200	2800	2A
FJTS	FBR211NFD024-P	24	B*	450	1300	2A
TAKA	MZ-24HG	24	B	450	1280	2A
ORIG	QUAT-SH-124D	24	A	450	1600	1A
ORG	OUA-SS-124D	24	A	450	1600	2A
CII	MSL48	48	A	220	5120	2A

Priced
From
.25
Ea./M

(*) = 5 pins



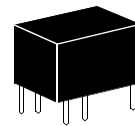
ITT / TAKAMISAWA TYPE LZ RELAYS SPST & SPDT CONTACTS, 1 to 5 AMPS



BOTTOM VIEW .100" GRID

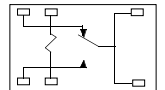
Direct PCMount. Size 7/8" x 11/16" x 5/8"

MFG*	MFG #	Coil	Contact form	Contact Rating	Price Ea./M
TAKA	LZ-5HS-C	5VDC	SPDT	5A	.85
TAKA	LZG-5H-C-UL	5VDC	SPDT	5A	.85
AZ	AZ8-1C-6VDC	6VDC	SPDT	3A	.75
ORIG	ODTM-SS-109DM	9VDC	SPST	5A	.85
AZ	AZ8-1C-12DE	12VDC	SPDT	3A	.75
HASC	SSD103PN-12V	12VDC	SPDT	3A	.68
HASC	SSD105PHDC12	12VDC	SPDT	5A	.55
TAKA	LZG-12W	12VDC	SPDT	1A	.85
TAKA	LZ-12VM-C	12VDC	SPST	10A	.85
GRDN	1675S-DC-12V	12VDC	SPDT	5A	.72
AZ	AZ8-1C-24DE	24VDC	SPDT	3A	.75
DECO	SSD103PN-24V	24VDC	SPDT	3A	.50
FEME	EMA00124	24VDC	SPDT	5A	.50
FEME	EMHA00124	24VDC	SPDT	5A	.50
TAKA	LZ24	24VDC	SPDT	3A	.85



SUBMINIATURE SPDT RELAYS 1 AMP CONTACTS

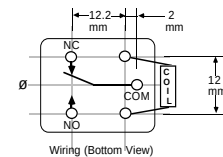
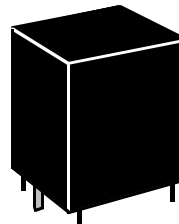
Size: L = .510" W = .390" H = .310"
Ideal for interface applications.



MFG #	Coil Volts	Coil ohms	Epoxy Sealed	Stock #	Price Ea./M
SY-5-K	5VDC	167	Yes	21247	.95
G2Q-184P-V-5VDC	5VDC	90	Yes	5827	.95
SY-9-K	9VDC	540		29343	.95
HD1E-12V	12VDC	515	Yes	34392	1.38
SZ-12	12VDC	480		29318	call
SY-12	12VDC	960		25590	.75
G5V-1-DC12	12VDC	960		25084	call
HD1E-M-DC24C	24VDC	2060	Yes	32727	1.55

HIGHGUARD SPDT HIGH CURRENT UP TO 10 AMPS ICE CUBE SIZE RELAY

• Direct replacement for
AZ AZ4, FJTS FBR111, FBR161, NEC MR301,
GRDN 1575, OMRN G5L, MAGN W178,
HASKLT, AROM JS1E, SGMA 78RE



Wiring (Bottom View)

H G MFG #	Coil Volts	Coil Ohms	Contact Form	Stock #	Price Ea./M
HG4130 003-Z1C	3VDC	25	SPDT		call
HG4130 005-Z1C	5VDC	70	SPDT		.45
HG4130 006-Z1C	6VDC	100	SPDT	30596	.58
HG4130 009-Z1C	9VDC	225	SPDT	34022	.48
HG4130 012-Z1C	12VDC	400	SPDT	32052	.48
HG4130 024-Z1C	24VDC	1600	SPDT		.40
HG4130 048-Z1C	48VDC	6400	SPDT		.50

GENERAL PURPOSE RELAYS

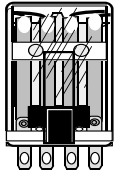


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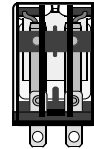
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GENERAL PURPOSE KHU TYPE MULTI- CONTACT RELAYS

Size : Just over one cubic inch.
Transparent Polycarbonate cover.

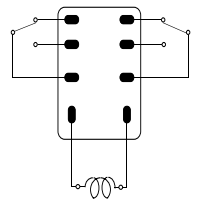
MFG*	MFG #	Coil Volts	Contacts Form Rating Term.	Stock #	Price Ea./C
FJTS	FRL263D006/01CS	6VDC	SPDT 5A Lug	3093	.75
FJTS	FRL264D006/02CV	6VDC	DPDT 5A PC	13488	1.00
TAKA	MAT4B-AR6VDC	6VDC	4PDT 3A PC	35218	.95
FJTS	FRL263D006/04CS *	6VDC	4PDT 3A Lug	12514	2.25
MAGN	W78PCX-1	6VDC	4PDT 3A PC	13529	2.25
MAGN	W78CSX-8	6VDC	4PDT 3A W/E	13534	2.25
FJTS	FRL264D006/04CV	6VDC	4PDT 3A PC	15378	1.70
MAGN	W78ARPLY-2	12VAC	DPDT 3A PC	13531	1.50
FJTS	FRL263A012/04CS	12VAC	4PDT 3A W/E	2714	1.25
FJTS	FRL264A012/04CV *	12VAC	4PDT 3A PC	12512	1.80
MAGN	W78APCX	12VAC	4PDT 3A PC	13474	1.80
MDTX	158-22B200	12VDC	DPDT 10A PC	31847	.95
FJTS	FRL263D012/03CS	12VDC	3PDT 5A Lug	20966	.50
FJTS	FRL264D018/04CV	18VDC	4PDT 5A PC	13516	.75
LYNX	SA205P	24VAC	DPDT 5A PC	30153	call
OMRN	MY2N-24VAC	24VAC	DPDT 5A L/LED	33538	1.50
OMRN	MY3-02	24VDC	3PDT 5A PC	33107	1.50
FJTS	FRL264A024/03CS	24VAC	3PDT 5A PC	13470	1.25
MAGN	W78ATPCX-3	24VAC	3PDT 3A PC	13475	1.25
BBCK	KHU4C24AC	24VAC	4PDT 3A Lug	3578	2.50
MAGN	W78ATPCX-3	24VAC	4PDT 3A PC	13479	2.25
FJTS	FRL264A024/04CT	24VAC	4PDT 1A PC	13505	2.50
FJTS	FRL264D024/01CS	24VDC	SPDT 5A PC	13519	1.00
OMRN	MY2 UA-007040DC24	24VDC(D)	DPDT Lug	35331	1.35
P&B	KH50001	24VDC	DPDT 3A Lug	6121	1.50
FJTS	FRL264D024/02CK	24VDC	DPDT 5A PC	32049	1.35
FJTS	FRL263D024/02CV	24VDC	DPDT 7A Lug	13477	1.65
FJTS	FRL264D024/02CV	24VDC	DPDT 7A PC	13507	1.75
SCHR	RA4D124	24VDC	4PDT 3A Lug	35370	2.00
STDN	C281XDX103	24VDC	4PDT 3A PC	35405	2.00
SGMA	67REV4-24DC-SCO	24VDC	4PDT 5A PC	35385	2.25
GRDN	1315S-4C-24VDC (S)	24VDC	4PDT 5A Lug	5554	2.50
GRDN	1315P-4C024DC	24VDC	4PDT 5A PC	35377	2.20
FJTS	FRL264D024/04CL	24VDC	4PDT 3A PC	13491	1.75
MDTX	156-14Q2B0	24VAC	4PDT 5A Lug	31208	1.75
FJTS	FRL263A048/04CS	48VAC	4PDT 3A Lug	20965	.50
FJTS	FRL263A048/04CV	48VAC	4PDT 5A W/E	7338	1.62
MDTX	158-22D2001	48VDC	DPDT 10A PC	5301	.95
FJTS	FRL263D048/02CV	48VDC	DPDT 5A Lug	12509	1.50
FJTS	FRL264D110/03CS	110VDC	3PDT 5A PC	13469	1.25
P&B	KHX17D18110	110VDC	4PDT 3A Lug	9984	3.00
TEC	AZ1309	110VDC	4PDT 3A Lug	9991	2.75
AROM	HC4D-DC110V	110VDC	4PDT 3A Lug	9992	2.75
MAGN	W78CSX-6	110VDC	4PDT 3A Lug	13532	3.00
AROM	HC2-P-AC115V	115VAC	DPDT 3A PC	35425	1.25
FJTS	FRL263A120/02CV	120VAC	DPDT 5A W/E	13535	1.57
FJTS	FRL264A120/02CV	120VAC	DPDT 5A PC	13485	1.00
MDTX	156-14T300	120VAC	4PDT 2A Lug	35371	2.50
FJTS	FRL264A120/04CS	120VAC	4PDT 3A PC	3233	1.75
ITT	ITT4B-R	120VAC	4PDT 3A PC	10090	2.75
OMRN	MY4N-110/120VAC	120VAC	4PDT 5A PC/led	35081	3.00
FJTS	FRL264A220/03CS	220VAC	3PDT 5A PC	13504	1.00
FJTS	FRL263A240/04C	240VAC	4PDT 5A W/E	2979	2.50
FJTS	FRL263A240/04CV	240VAC	4PDT 5A Lug	25322	2.25
ITT	ITT4ZGR	220VAC	4PDT 3A Lug	6113	2.50



HIGH CURRENT GENERAL PURPOSE POWER RELAYS = to P&B K10 SERIES

10 - 15 AMP

Rugged construction and sturdy, Dust covers
Size : 1 1/16" x 13/16" x 1 3/8"



MFG	MFG #	Coil Volts	Contacts Form Rating Term.	Stock #	Price Ea./M
FJTS	FRL264D006/02AK	6VDC	DPST 15 PC	13486	.75
FJTS	FRL263D00/01CK	6VDC	SPDT 15 Lug	3164	1.00
FJTS	FRL264D006/01AK	6VDC	SPST 15 PC	13483	.75
FJTS	FRL261A012/01CK	12VAC	SPDT 15 Ears	7487	1.25
GRDN	1390PS12AC	12VAC	DPDT 13 PC	5642	2.25
EGLS	14Q2CD012	12VDC	DPDT 10 Lug	35422	2.00
MAGN	W78RCSX-7	12VDC	DPDT 10 Lug	13524	1.75
TAKA	MAT2B-BH	12VDC	DPDT 10 PC	34619	2.25
OMRN	LY2-0-12DC	12VDC	DPDT 10 PC	35552	1.90
GRDN	1390PS24AC(S)	24VAC	DPDT 13 PC	5654	2.00
FJTS	FRL264D024/01CK	24VDC	SPDT 15 PC	13500	1.25
FJTS	FRL263W024/01CK	24VDC	SPDT 15 stud/Lug	15077	1.25
AROM	HL2-DC24V	24VDC	DPDT 10 Lug	35656	1.50
AZ	AZ6P-2CH24D	24VDC	DPDT 10 PC	8905	1.95
FJTS	FRL264D024/02CK	24VDC	DPDT 10 PC	32049	2.25
GRDN	1395P-2C-24D	24VDC	DPDT 10 PC	21349	1.95
OMRN	LY2-0-24VDC	24VDC	DPDT 10 PC	33529	1.95
FJTS	FRL264D048/02CK	48VDC	DPDT 10 PC	15072	1.75
FJTS	FRL264A100/02CK	100VAC	DPDT 10 PC/E	15084	1.50
FJTS	FRL263D110/02CK	110VDC	DPDT 10 W/E	15066	1.50
FJTS	FRL264D110/01CK	110VDC	SPDT 15 PC	13525	.95
FJTS	FRL263D110/02CK	110VDC	DPDT 10 Lug	13476	1.80
FJTS	FRL261A120/01A	120VAC	SPST 15 W/E	7471	.95
FJTS	FRL263A120/01CK	120VAC	SPDT 15 Lug	13481	1.50
OMRN	LY1-120AC	120VAC	SPDT 10 Lug	35042	1.25
GRDN	1390P-2C-120AC	120VAC	DPDT 13 PC	18351	1.50
ORIG	SRET-206AP4	120VAC	DPDT 15 PC	25279	1.95
GRDN	1390PS120AC	120VAC	DPDT 13 PC †	5160	2.95
FJTS	FRL263A120/01CR	120VAC	DPDT 10 Lug	7795	1.50
OMRN	LY2-VN-220VAC††	220VAC	DPDT 10 Lug	33905	1.50
OMRN	LY2US22C240VAC	240VAC	DPDT 10 Lug	6526	1.75
P&B	K10P11A55-240V	240VAC	DPDT 10 PC	34651	2.25
FJTS	FRL263A240/02CK	240VAC	DPDT 10 Lug	23237	2.25

(*) = Push to test button. LUG = Solder or plug-in terminal.

PC = Printed circuit terminals. R/A= Right angle bracket.

W/E = Solder lug with ears. (S) = Sealed. L/LED = Lug W/ LED

(D)= with diode across coil, (†)= sealed, PC/E = PCMT with ears

(††) = VDE approved 7 Amps..

OCTAL BASE PLUG-IN & KUP TYPE RELAYS

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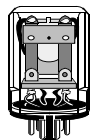
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OCTAL BASE PLUG-IN RELAYS

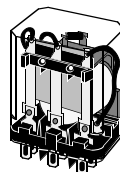
P&B KRP or Equal

ENCLOSED IN A CLEAR POLYCARBONATE DUST COVER

MFG	MFG #	Coil Volts	Contacts Form	Rating	Stock #	Price Ea./C
OMRN	MK2P-S	6VAC†	DPDT 10A	33550	1.00	
P&B	KRPA-11AG-12	12VAC	DPDT 10A	34687	1.00	
FJTS	FRL256A12/02CS	12 VAC	DPDT 10A	12448	3.75	
OMRN	MK3EP-UA-AC12	12VAC	3PDT 10A	18749	1.50	
SGMA	50R023513	12 VDC	SPDT 10A	5785	2.50	
STDN	A314XB48P	12 VDC	DPDT 10A	3111	3.25	
P&B	KRP11DG12	12 VDC	DPDT 10A	5572	4.25	
MAGN	W88CPX-5	12 VDC	DPDT 10A	5757	3.25	
FJTS	FRL256D012/02C	12 VDC	DPDT 10A	12437	3.50	
ITT	RM833212	12VDC	3PDT 10A	35553	2.95	
OMRN	MK2PN-S	24VAC*	DPDT 10A	33554	2.95	
STDN	A314XB48PL	24 VAC	DPDT 10A	3127	3.50	
SGMA	50R0227452	24 VAC	DPDT 10A	5779	3.50	
ITT	RM842124	24 VAC	DPDT 10A	5951	2.75	
FJTS	FRL256A024/02CS	24 VAC	DPDT 10A	12441	3.50	
MAGN	W88CPX-3	24VDC	SPDT 10A	22454	1.00	
FJTS	FRL256D024/01CS	24VDC	SPDT 10A	12440	1.00	
STDN	A314XC48P	24 VDC	DPDT 10A	3112	3.50	
FJTS	FRL256D024/03CS	24 VDC	3PDT 10A	12449	3.95	
FJTS	FRL256D024/03CS	48 VAC	3PDT 10A	12446	2.00	
ITT	RM832148N	48 VDC	DPDT 10A	5969	2.70	
SYRC	SKP14DG48VDC	48 VDC	3PDT 10A	5775	3.60	
FJTS	FRL256D048/03CS	48 VDC	3PDT 10A	12436	3.50	
ISKR	PR58B	110VDC	DPDT 10A	8126	1.95	
STDN	A314XB48P	110 VDC	DPDT 10A	3113	195	
FJTS	FRL256D110/02CS	110 VDC	DPDT 10A	12447	2.70	
P&B	KR57193	110 VDC	DPDT 10A	5721	2.70	
ITT	8412120	120VAC	SPDT 10A	5718	1.50	
FJTS	FRL256A120/02CS	120VAC	DPDT 10A	35580	2.75	
FJTS	FRL256A120/01CS	120 VAC	SPDT 10A	12450	1.95	
STDN	A314XB48PL	120 VAC	DPDT 10A	3130	2.50	
COMP	C11203220VAC	220 VAC	DPDT 10A	5787	1.75	
LINE	MKP2A220 VAC	220 VAC	DPDT 10A	5857	1.75	
SYRC	SKP11AGN230	230VAC *DPDT	10A	5858	1.75	

* = Neon lite across coil to indicate energized contacts.

Ideal use for Elevator Controls. † = Push test button



KUP STYLE RELAYS

5 to 15 Amp Control Capacity

Transparent Polycarbonate Cover

UL listed

Mounting Styles: Sockets, Ears & Stud

Quick Connect Terminations

MFG	MFG #	Coil Volts	Contacts Form Mt.	Rated Amps	Stock #	Price Ea./C
SGMA	68R3-6AC-SCO	6VAC	3PDT Lug	10	6477	3.25
P&B	KUP14D15-6	6VDC	3PDT Lug	10	6479	2.75
P&B	KU4731	6VDC	3PDT Lug	10	6478	3.00
FJTS	FRL253A012/03C	12VAC	3PDT Lug	10	7346	2.50
FJTS	FRL251A012/01CS	12VAC	SPST Ears	10	16741	.50
P&B	KUEP-11D15-12	12VDC	DPDT Lug	10	35034	1.75
OMRN	MJIC-UA-AC24	24VAC	SPDT Ears	10	3758	1.50
DLTL	1662030882	24VDC	3PDT Lug	10	5470	3.25
MAGN	W388ACPX-13	24VAC	3PDT Lug	11	8950	3.25
P&B	KUP17A5524	24VAC	4PDT Ears	10	5479	5.75
DLTL	166DL	24VDC	SPDT Lug	10	2642	1.50
P&B	KUP7D55-24	24VDC	DPST Ears	10	10548	1.00
DLTL	166DL	24VDC	DPDT Lug	10	2642	2.50
DLTL	165DL	24VDC	1A/2C Lug	5	1983	.75
SCHR	RM900046	24VDC	DPDT Lug	10	5460	2.75
SCHR	RM205-024	24VDC	DPDT Ears	16	35337	3.00
FJTS	FRL253D024/02CS	24VDC	DPDT Lug	10	17462	2.75
DLTL	28749-60	24VDC	DPDT Lug +	10	21139	2.00
P&B	KU-5390	24VDC	DPDT L/D	10	17463	3.00
MAGN	W388CPX-7	24VDC	DPDT Lug	12	8949	2.75
P&B	KUP11D15-24VDC	24VDC	DPDT Lug	10	10473	4.00
GRDN	1395P-2C-24D	24VDC	DPDT PC	10	21349	2.50
P&B	KUP11D55-24	24VDC	DPDT Ears	10	29316	2.50
GE	CR220HF78W10	24VDC	3PDT Lug	10	5568	2.75
SGMA	68R324DCSCO	24VDC	3PDT Lug	10	5578	3.15
DLTL	2031182	24VDC	3PDT Lug	10	5576	3.00
CDE	213D1024B	24VDC	3PDT Lug	10	5692	3.25
CLRE	GP3R231AD2000	24VDC	3PDT Lug	10	5695	3.00
MAGN	W388CPX-11	24VDC	3PDT Lug	11	8951	3.25
P&B	KUMP14DA8	24VDC	3PDT MS	15	9432	3.50
P&B	KUP6D15-48VDC	48VDC	DPDT Lug	3	1760	1.50
MDTX	187-86F6V1-110D	110VDC	DPST Lug#	25	15826	Call
OMRN	MJ2PUADC110	110VDC	DPDT Lug	10	5158	3.28
OMRN	MJP-UA-DC110	110VDC	DPDT Lug	10	18220	2.00
IDEC	RR3BUS110VDC	110VDC	3PDT Ears D	10	7231	3.50
IDEC	RR3B-SFDC110	110VDC	3PDT Lug	10	23225	2.50
SCHR	RM703-615	115VAC	3PDT Ears	16	35388	3.50
P&B	KUP5A1120	120VAC	SPDT Ears	5	5607	1.95
FJTS	FRJ251A120/01CS	120VAC	SPDT Ears	10	6523	1.75
MAGN	W388ACPX-4	120VAC	SPDT Lug	13	9204	1.50
STDN	B283XAXCS2	120VAC	SPDT MS	10	10829	1.50
STDN	A283XBXC	120VAC	DPDT Lug	10	3134	3.25
MDTX	157-23T1L1	120VAC	DPDT MS	5	35364	1.57
SKY	SKAT-1-2C 120VAC	120VAC	DPDT Ears	13	35455	2.25
MAGN	W388ACPX-9	120VAC	DPDT Lug	12	9205	3.25
MAGN	W388ACQX-9	120VAC	DPDT Lug	12	28808	2.50
MDTX	157-23T1L1	120VAC	3PDT MS	5	35364	1.25

Lug = Socket plug-in, Ears = Ear mounting bracket, MS = Mounting Stud 6-32 x .280"

Lug + = Lug & mounting hole, L/D = Lug with diode across coil, #=Lug or PC(pc tip snap-off)

**FOR A COMPLETE LISTING
OF RELAY SOCKETS
SEE PAGE 19**

MANUFACTURER'S LEGEND

A/B -Allen -Bradley	HG -Highguard	P&B -Potter&Brumfield
ALLD -Allied Electronics	HP -Hewlett/Packard	SGMA -Sigma
AROM -Aromat	ITT -ITT	SIEM -Siemens
AT&T -American Tel&Tel	ISKR -Iskra	SKY -Sky relays
AZ -American Zettler	IDEC -Iddec	STDN -Struthers Dunn
BBCK -Babcock	JACO -Jaico	STAN -Stancor
BEST -Beststar	MAGN -Magnecraft	SSAC -SSAC
CLAR -CP Clare	MATS -Matsushita	STET -Stetron
CDE -Cornell Dubilier	MDTX -Midtex	TAIK -Taiko
CRY -Crydom	MONS -Monsanto	TAKA -Takamasawa
DLTL -Deltrol Controls	MOT -Motorola	THET -Theta J Electronics
ELEC -Electrol	NEC -NEC	TOSH -Toshiba
FEME -Feme(Italian Mfg)	OMRN -Omron	TELE -Teledyne
FJTS -Fujitsu	OPTO -Opto 22	TECK -Teck
GRDN -Guardian Electric	PHIL -Philips	VACT -Vactrol
GORD -Gordos	SCHR -Schrack	WABA -Wabash
HAML -Hamlin	SYRC -Syracuse	
HAS -Hasco	QTC -Quality	

P&B TYPE R10, R30, R40 & R50 RELAYS

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DERF ELECTRONICS CORP.

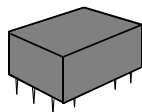
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HC 3 Box 932-1, Scott Thomson Road
Old Town, Florida 32680
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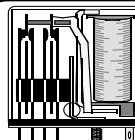
P&B R50 SERIES or Equal MFG PC MOUNT RELAYS

Direct drive from TTL Drivers
1" Grid spacing

Typical Applications

Alarm systems, Business machines, Telephone switching equipment,
Communication equipment and data processing equipment.

MFG	MFG #	Coil Volts	Contacts Form	Rating	Price Stock #	C/M
P&B	R50-E2-Y1-5VDC	5DC	SPDT	2	21725	Call
P&B	R50-E2-Y2-5VDC	5DC	DPDT	2	35327	Call
P&B	R50-E2-Y1-6VDC	6DC	SPDT	2	5931	Call
P&B	R50-E2-Y2-6VDC	6DC	DPDT	2	99997	Call
P&B	R50-E2-Y1-12VDC	12DC	SPDT	2	22246	Call
P&B	R50-E2-Y1-24VDC	24DC	SPDT	2	5579	Call
P&B	R50-E2-Y2-24VDC	24DC	DPDT	2	5002	Call
P&B	R50-E2-Y1-48VDC	48DC	SPDT	1	99995	Call
AMERICAN ZETTLER 2530 & 2531 SERIES						
AZ	AZ2530-12-1	5DC	SPDT	1	12230	Call
AZ	AZ1530-10-100	5DC	SPDT	1	1039	Call
AZ	AZ2531-14-1	5DC	DPDT	1	3746	Call
AZ	AZ2531-14-2	6DC	DPDT	2	17821	Call
AZ	AZ530-09-2	12DC	SPDT	2	15781	Call
AZ	AZ1530-06-2	24DC	SPDT	1	12044	Call
AZ	AZ2530-04-1	48DC	SPDT	1	14313	Call
MAGNECRAFT 60RE SERIES						
MAGN	60RE-1S-5DC	5DC	SPDT	1	13568	Call
MAGN	60RE-2-5DC	5DC	DPDT	2	99994	Call
MAGN	60RE-1-12DC	12DC	SPDT	2	99993	Call
MAGN	60RE-1-24DC	24DC	SPDT	2	99991	Call
MAGN	60RE-2-24DC	24DC	DPDT	2	15944	Call
SIGMA 60RE SERIES						
SGMA	60RE-1S-5DC	5DC	SPDT	1	1759	Call
SGMA	60RE-2-5DC	5DC	DPDT	2	99990	Call
SGMA	60RE-1S-6DC	6DC	SPDT	1	5928	Call
SGMA	60RE-2-6DC	6DC	DPDT	2	99989	Call
SGMA	60RE-1-12DC	12DC	SPDT	2	99988	Call
SGMA	60RE-1-24DC	24DC	SPDT	2	99986	Call
SGMA	60RE-2S-48DC	48DC	DPDT	2	25926	Call
GUARDIAN 1475 SERIES						
GRDN	1474-2C-24DC	24DC	DPDT	5	5843	Call



P&B R10 SERIES or Equal MFG

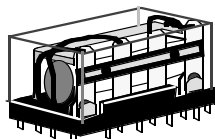
CLEAR POLYCARBONATE COVER
GENERAL PURPOSE RELAY

RUGGED CONSTRUCTION FOR HIGH RELIABILITY

Coil Volts	Contacts Form Mt.	Rated Amps	MFG	MFG #	Price Stock #	Ea./C
5VDC **	SPDT PC	3	P&B	R10SE2Y1J500	5601	Call
6VDC	SPST PC	1	SGMA	70RE12VH-6DC	1748	.75
6VDC	DPDT LUG	5	P&B	R10E1X2V526VDC	7222	3.25
6VDC	DPDT LUG	5	AZ	AZ420-15-4H	12228	2.25
6VDC	4PDT LUG	2	ALLD	T154X1229	7139	2.50
6VDC	4PDT LUG	2	GOULD	T154X1-266	8196	2.50
6VDC	6PDT LUG	3	P&B	R10-E1-Z6-V25	12001	3.50
12VDC *	DPDT LUG	2	P&B	R10-E1-Y2-J2.5K	10274	Call
12VDC	DPDT LUG	1	MATS	K2Y-12V-1	22455	2.95
12VDC *	DPDT LUG	2	SGMA	70R2S100012VDC	8342	3.25
12VDC	4PDT Lug	2	AROM	K4Y-12V-1	35313	3.00
12VDC	4PDT Lug	2	AROM	K4-12V-9	35312	2.25
12VDC	4PDT LUG	2	AZ	AZ241-1011-1L	3554	2.50
12VDC	4PDT LUG	5	MAGN	W67RCX-7	10693	3.50
24VDC	SPDT PC	1	SGMA	70RE12VH24DC	5064	.50
24VDC	DPDT PC	2	P&B	R10-1E40241	7246	1.95
24VDC	DPDT LUG	5	SCHR	ZLU 021 024	17844	Call
24VDC	DPD TPC	2	GOULD	TP154CC24VDC	5575	1.00
24VDC	DPDT LUG	2	AROM	K2YT-24V-9	5632	2.75
24VDC	DPDT PC	2	P&B	R10E40241	6073	1.95
24VDC	4PDT LUG	2	AROM	K4Y-24V-9	1782	2.50
24VDC	4PDT PC	2	AROM	K4ET-24V-9	5001	4.50
24VDC *	4PDT LUG	5	P&B	R10E1-M4-S1.8K	5069	Call
24VDC *	4PDT LUG	2	SGMA	70R4S25412	5168	1.50
24VDC	4PDT PC	2	AZ	AZ429-70-1LUS	18357	Call
24VDC	4PDT LUG	2	ALLD	R10T154X786	6072	2.50
24VDC	4PDT LUG	2	DLT	255677E10657	6096	1.95
24 VDC	4PDT PC	2	ALLD	TPS-163-2C-2C	9242	3.95
24VDC	4PDT LUG	2	P&B	R10-E1-X4-V700	10273	3.95
24VDC	4PDT LUG	2	AZ	AZ-421-07-1L	5224	1.95
24VDC	8PDT LUG	250MA	P&B	R10-E1-L8-V350	8190	6.95
115VAC	DPDT PC	5	P&B	R10R2-X2-115V	31274	4.50
115VAC	DPDT LUG	1	P&B	R10-E1-Z2-V115	5626	5.95

* Sensitive coil

** Super Sensitive 500 ohm coil 10mw pick-up



MEC GLP-4PDT-24D 4PDT 7AMP CONTACTS 24VDC COIL RELAY

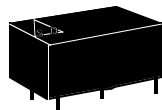
PCMT UL & CSA LISTED relay, 350 ohm coil.

Size: 1.6" X 1.395" X 1.07" in a clear dust cover.

Mfg Master Electronic Controls P/N GLP-4PDT-24D

Stock # 25498

Price Ea./C \$2.95



10 AMPS IN A SMALL PKG. SPST (NO) CONTACTS 5VDC COIL

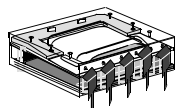
Small in size for a big job, This **STRUTHERS DUNN** relay Contacts
can handle 10 Amps 240VAC/ 30VDC, 1/6 hp@120VAC.

Size: L .785" W .495" H .395 PCMT. UL & CSA Listed

MFG SD P/N 276AXXH-5D

Stock # 25495

Price Ea./M .65

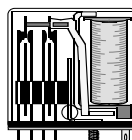


4PDT RIGHT ANGLE SLIM LINE GENERAL PURPOSE RELAY P&B R40 SERIES

PCMounting.

Size: L = 1.480" W = 1.200" H = .430"

MFG #	Coil	Contacts	Rating	Stock #	Price.
R40-E3-Z4-V200	12VDC	4PDT	2.0A	9737	Call



DUAL COIL LATCHING RELAY DPDT 7.5 AMP CONTACTS P&B R30 Series

Clear Polycarbonate Dust Cover

P&B	MFG #	Coils VDC	MT. type	Stock #	Price Ea./C
R30D-E1-W2-V60024		24	lug	12063	2.75

OPEN FRAME HIGH CURRENT RELAYS & ICE CUBE SIZE RELAYS



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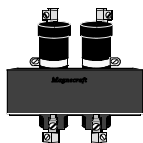
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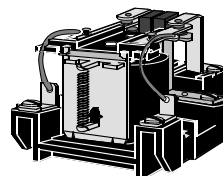
1-800-431-2912
(Outside NY)
1-800-874-3373
(Outside FL)



60 AMP MERCURY DISPLACEMENT RELAY SEALED DPST(NO) CONTACTS 120VAC 218 OHM COIL.

High inrush capacity, Liquid Mercury contacts, with steel tube design. Hermetically sealed and pressurized with inert gas for rapid arc suppression.

MAGNACRAFT MFG # WM60AA -120A
Stock# 9265 Price Ea.- \$8.00



30 AMP OPEN FRAME HEAVY DUTY FAST-ACTING CLASS 199 POWER RELAYS

INDUSTRIAL CONTROL APPLICATIONS
RUGGED CONSTRUCTION

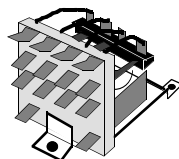
MFG	MFG #	Contacts	Amperage	Coil Volts	Stock #	Price Ea./C
MDTX	30-15B2L1	SPST(NC)	30	12VDC	11384	4.50
P&B	PRD5DY024	SPDT	25	24VDC	7209	6.70
MAGN	W199X-3	SPDT	30	24VDC	8959	4.95
MAGN	W199X-3	SPST	30 *	24VDC	8958	3.75
P&B	PRD7DY0	DPST	25	24VDC	5170	5.95
MDTX	302-11C100	DPDT	25	24VDC	10822	5.95
DLTL	20245-82	DPDT	30	24VDC	10821	5.95
DLTL	20249-82	DPST	30	24VDC	5569	5.25
MAGN	W199DBX-4	SPST	20 *	110VDC	9210	3.75
MAGN	W199ADBX-4	SPST	20 *	120VAC	9209	3.50
MAGN	W199X-4	SPDT	30	110VDC	8956	5.25
STDN	425BXX	DPST	20	120VAC	3145	5.95
P&B	PRD7AY0-120	DPST	25	120VAC	20839	5.60
DTD	20240-83	DPST	30	120VAC	11556	5.95
MAGN	W199ABX-14	DPDT	10 ***	120VAC	8954	9.95
P&B	PRD11AY0-120	DPDT	25	120VAC	3159	7.50

* Double make contacts

** With magnet blowout for DC arc-quenching

***Auxiliary SPDT snap-action 10 amp switch (rear of unit)

(NC) = norm. closed



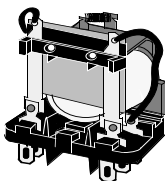
COMPACT 25 AMP 4PDT POWER RELAY Silver-cadmium oxide contacts 24VAC COIL

For polyphase and heavy duty switching.
1/4 "Quick Connects

Size: L = 2.657" W = 3.394" H = 2.719"

Mounting by 3 # 8-32 screws on 2" X 2.5" triangular centers.

P&B MFG #	Coil Volts	Coil Ohms	Pwr.	Stock#	Price Ea.
PMT17AY	24VAC	5.5	18VA9	5174	\$8.50



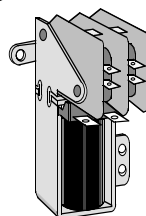
OPEN FRAME RELAYS GENERAL PURPOSE P&B KA SERIES or EQUAL

INEXPENSIVE LONG LIFE AND RUGGED

MFG	MFG #	Coil Volts	Contacts	Rating	Stock #	Price Ea./C
MDTX	1551252B4	6VDC	DPDT	10	6068	1.00
ITT	8532316	6VDC	3PDT	10	5985	1.50
DLTL	30222-27822-6	12VDC	SPDT	10	15827	.50
P&B	KA11DG12	12VDC	DPDT	10	5448	1.00
SCHR	RN230012 *	12VDC	DPDT	5	35336	.50
SCHR	RL33012 *	12VDC	3PDT	5	35343	.50
EDWD	395770110	24VDC	DPDT	5	6159	.75
P&B	542108	24VDC	SPDT	5	6169	.50
MAGN	W388X2	24VDC	SPDT	10	7846	.75
DLTL	2405260	24VDC	SPDT	10	5580	.75
DLTL	101UQ23VDC	24VDC	DPDT	10	7847	1.00
ALLD	KN1052C240	24VDC	DPDT	10	5477	1.00
P&B	KA1052C240	24VDC	3PDT	10	6076	1.50
GRDN	A4100062636-00	24VDC	3PDT	10	7764	1.50
EGLS	2003C0110VDC	110VDC	3PDT	10	6108	1.50
P&B	KA80044DIVY110V	110DC	3PDT	10	7240	1.50
VANG	16010-010A	110DC	3PDT	10	9986	1.50
MAGN	W388AX-9	120VAC	DPDT	10	11328	1.50
P&B	KA81085	220VAC	3PDT	10	5517	1.50

Quantities under 100 PCS are not listed.

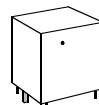
* = 6-32 mounting stud



INDUSTRIAL POWER RELAYS 20 AMP CONTACTS P&B S86R & S87R

Sealed coil W: 1/4 Quick connects
Switching high current at low cost.

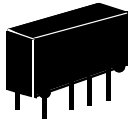
P&B MFG #	Coil Volts	Contact	Stock #	Priced From
S87R5D2B1D1	24VDC	SPDT	17344	1.50
S86R11A1B1D1	24VAC	DPDT	34643	
S86R11D1B1D1	24VDC	DPDT	4999	
S87R11D2B1D1	24VDC	DPDT	5175	



ICE CUBE STYLE RELAYS SPDT 3 TO 10 AMP CONTACTS & SPST (NO) = †

MFG	MFG#	Coil Volts	Contact Rating	Stock #	Priced From
AROM	JS1aE-12V	12DC	10A †	35113	.25
OMRN	G2U-113P-US-DC12	12DC	5A	35453	
OMRN	G2U-113P	12DC	5A	35443	
FJTS	FBR111ED012	12DC	5A	35576	
NEC	MR31-12UD	12DC	5A	35445	
NEC	MR331-N12	12DC	10A	35451	
AZ	AZ4-1CH-24DE	24DC	10A	35462	
AZ	AZ-1CH-24S	24DC	10A	35468	
OMRN	LCN-10-100-US-24	24DC	10A	35452	
DECO	UVD110P-DC24	24DC	10A	35213	
NEC	MR31-24HUD	24DC	10A	35446	
OMRN	LC1-C-E-US-120AC	120AC	3A	35504	

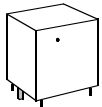
IF YOU DON'T SEE YOUR RELAY
REQUIREMENTS LISTED PLEASE CALL

**ULTRA-THIN RELAY**
DPDT 2 AMP CONTACTS
FBR12N SERIES UL & CSARELAY WITH 2,500 V SURGE
Sealed construction allows automatic washing
Size : L=.579" W = .289" H=.427"
14.7mm 7.35mm 10.85mm

Weight: Approx 2 gr.

Polarized coil

FUJITSU MFG #	Coil Volts	Coil ohms	Stock #	Price Ea./M
FBR12ND-12	12VDC	950	32419	.75

**ICE CUBE STYLE RELAYS**
SPDT CONTACTS
RATING 3 TO 10 AMPS
FBR111 PCMounting

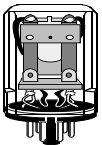
SEE PAGE 6 , 7 & 11 FOR EQUAL MFG OF ABOVE RELAY

**MULTI 10AMP CONTACT RELAYS**
FRL251 & 253 SERIES= TO P&B KUP TYPE

FUJITSU MFG #	Coil	Contacts	Rating	Stock #	Price Ea./C
FRL251A012/01CS	12VAC	SPDT	10A	16741	1.50
FRL253A012/03CS	12VAC	3PDT	10A	7346	1.50
FRL251A024/02CS	24VAC	DPDT	10A	5468	3.25
FRL253D024/02CS	24VDC	DPDT	10A	17462	3.25
FRL253D024/02CSA	24VDC	DPDT	10A *	17634	3.95
FRL251D110/02CS	110VDC	DPDT	10A	5490	3.25
FRL251A120/01CS	120VAC	SPDT	10A	6523	3.25
FRL253A120VAC	120VAC	3PDT	10A	7347	3.95

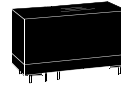
(*) = LED to indicate power to coil.

NOTE : Other Mfg. = to FRL251 & 253 Series see page 9 KUP Style.

**OCTAL PLUG-IN RELAYS**
FRL256 SERIES

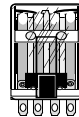
FUJITSU MFG #	Coil	Contacts	Rating	Stock #	Price Ea./C
FRL256A012/02CS	12VAC	DPDT	10A	12448	3.50
FRL256D012/02CS	12VDC	DPDT	10A	12437	3.50
FRL256A012/03CS	12VAC	3PDT	10A	12445	1.00
FRL256D024/01CS	24VDC	SPDT	10A	12440	1.95
FRL256A024/02CS	24VAC	DPDT	10A	12441	3.50
FRL256D024/03CS	24VDC	3PDT	10A	12449	4.50
FRL256D048/03CS	48VDC	3PDT	10A	12436	1.00
FRL256D110/02CS	110VDC	DPDT	10A	12447	2.00
FRL256A120/01CS	120VAC	SPDT	10A	12450	1.95

NOTE: Other Mfg. = to FRL 256 series see page9 Octal plug-in relays.

**SLIM - LINE POWER RELAYS**
5 TO 15 AMP CONTACTS
FBR600 SERIES

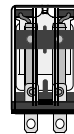
FUJITSU MFG #	Coil	Contacts	Rating	Sealed	Stock #	Price Ea./M
FBR613ND005	5VDC	SPST	10A	Yes	13464	1.00
FBR613D005-K	5VDC	SPST	15A	No	20949	1.20
FBR613ND006-CSA	6VDC	SPST	10A	Yes	7491	.95
FBR613D012-R	12VDC	SPST	10A	No	20944	.50
FBR621D012	12VDC	DPDT	6A	No	34997	1.10
FBR623D012	12VDC	DPST	5A	No	17891	.65
FBR621D024	24VDC	DPDT	5A	No	13496	1.10

(NC) = norm. closed

**MULTI-CONTACT 3 To 7 AMP**
GENERAL PURPOSE RELAYS
FRL263 & FRL264 SERIES = P&B KHU TYPE

FUJITSU MFG #	Coil	Contacts	Rating	Mounting	Stock #	Price Ea./C
FRL263D006/01CS	6VDC	SPDT	5A	Lug	3093	.75
FRL264D006/02CV	6VDC	DPDT	5A	PC	13488	1.00
FRL263A012/04CS	12VAC	4PDT	3A	Lug w/ears	2714	1.25
FRL264D018/04CV	18VDC	4PDT	5A	PC	13516	.75
FRL264A024/03CS	24VAC	3PDT	5A	PC	13470	1.25
FRL264A024/04CT	24VAC	4PDT	1A	PC	13505	2.50
FRL264D024/01CS	24VDC	SPDT	5A	PC	13519	1.00
FRL263D024/02CV	24VDC	DPDT	7A	Lug	13477	1.65
FRL264D024/02CV	24VDC	DPDT	7A	PC	13507	1.75
FRL264D024/04CL	24VDC	4PDT	3A	PC	13491	1.75
FRL263A048/04CV	48VAC	4PDT	5A	Lug w/ears	7338	1.62
FRL263D048/02CV	48VDC	DPDT	5A	Lug	12509	1.50
FRL264D110/03CS	110VDC	3PDT	5A	PC	13469	1.25
FRL264A220/03CS	220VAC	3PDT	5A	PC	13504	1.00
FRL263A240/04C	220VAC	4PDT	5A	Lug w/ears	2979	2.51

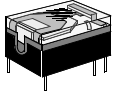
NOTE: other Mfg. = to FRL260 series see page 8 KHU Style relays.

**HIGH CURRENT 10 AMP**
GENERAL PURPOSE RELAYS
FRL260 SERIES = P&B K10 TYPE

FUJITSU MFG #	Coil	Contacts	Rating	Mounting	Stock #	Price Ea./M
FRL264D006/02AK	6VDC	DPST	15A	PS	13486	.75
FRL263D006/01CK	6VDC	SPDT	15A	Lug	3164	1.00
FRL264D006/01AK	6VDC	SPST	15A	PC	13483	.75
FRL264D006/02AK	6VDC	DPST	15A	PC	13486	1.25
FRJ261A012/01C	12VAC	SPDT	15A	Lug w/ears	7487	1.25
FRL263D024/01CK	24VDC	SPDT	15A	Lug w/stud	2943	1.25
FRL264D024/01CK	24VDC	SPDT	15A	PC	13500	1.25
FRL264D048/02CK	48VDC	DPDT	10A	PC	5625	2.00
FRL264A100/02CK	100VAC	DPDT	10A	PCw/ears	15084	1.50
FRL263D110/02CK	110VDC	DPDT	10A	Lug	3169	2.35
FRL261D110/02CK	110VDC	DPDT	10A	Lug w/ears	5677	1.75
FRL264A120/01AK	120VAC	SPST	15A	PC	15086	1.25
FRL263A120/01CK	120VAC	SPDT	15A	Lug	13481	1.35

NOTE : Other Mfg. = to FRL260 series high current see page 8, K10 series.

RELAY SOCKETS SEE PAGE 19

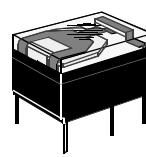


MINI DIP RELAYS SPDT 2 AMP CONTACTS FBR211 SERIES

Size: L = .650" W = .455" H = .415"

FUJITSU MFG #	Coil	Type	Stock #	Price Ea./M	Price Ea.10M
FBR211SED005-M	5VDC	B*	17884	.45	.35
FBR211BD006-P	6VDC	B	10936	.45	.35
FBR211CD009-P	9VDC	A	20962	.55	.45
FBR211SCD009-PB	9VDC	A	20957	.55	.45
FBR211NAD012-M	12VDC	A	17885	.60	.50
FBR211SFD024-P	24VDC	B#	17886	.40	.30
FBR211AD024	24VDC	A	2861	.75	.65
FBR211NED024-P	24VDC	B	10698	.55	.45

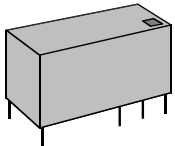
NOTE: (*)= sensitive coil (#) = 5 Pins A coil= pins 2 & 4 B coil = pins 1 & 2
Other Mfg. = to FBR211 Can be found on page 7 Sub Mini Dips MZ Series.



SMALL COMPACT PCMount RELAYS SPDT and DPDT 3 AMP CONTACTS FBR300 SERIES

Size : L = .923" W = .591" H = .709"

FUJITSU MFG #	Coil Volts	Amp Contacts Rating	Stock #	Price Ea./M
FBR321D005	5VDC	DPDT 3	13540	.95
FBR311D006	6VDC	SPDT 3	25041	.45
FBR311D009	9VDC	SPDT 3	2747	.35
FBR311ND009-Y329VDC	9VDC	SPDT 3	2827	.45
FBR321D012	12VDC	DPDT 3	25020	.95
FBR311ND024	24VDC	SPDT 3	18167	.38
FBR311D024	24VDC	SPDT 3	5598	.38
FBR351D024	24VDC	SPDT 3	7342	.38

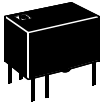


MINI DIP RELAYS DPDT 2 AMP BIFURCATED CONTACTS FBR244 SERIES

Fits standard 16 Pin Socket .
Size: L = .80" W = .40" H = .415"

FUJITSU MFG #	Coil	Stock #	Price
FBR244NG048/02C	48VDC	17888	From 0.82

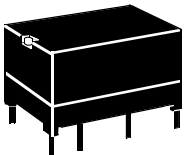
NOTE : Other Mfg. = to the FBR244 Can be found on page 6



MICROMINIATURE RELAYS SPDT 1 AMP CONTACTS FBR20 SERIES

FBR21 Single contacts FBR22 Bifurcated contacts
Size : L = .394" W = .299" H = .394" PC Mount.

FUJITSU MFG #	Coil Volts	Stock #	Price Ea./M
FBR21D03-P	3VDC	25388	.65
FBR22ND03-P	3VDC	12515	.75
FBR22D05-P	5VDC	20690	.75

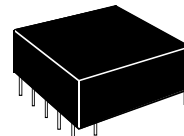


ULTRA - MINI LOW PROFILE DPDT DIP RELAYS 1 AMP BIFURCATED CONTACTS FBR42 & FBR46 SERIES

Sealed- Fits Std. 14 pin socket.
Pick-up Power 85 mW(Sensitive)

FUJITSU MFG #	Coil	Stock #	Price Ea./C	Price Ea./M
FBR42D003	3VDC	25387		
FBR42ND005	5VDC	16749	.95	.68
FBR46ND012-P *	12VDC	17890	.82	.75
FBR42ND024	24VDC	2935	.75	.70
FBR46D024-P	24VDC	15045	.82	.75
FBR46ND024	24VDC	32837	.98	.85

NOTE: (*) = OMRON G5A see page 15

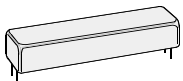


MINIATURE FLAT PACK RELAYS DPDT and 4PDT 2 AMP BIFURCATED CONTACTS FBR422 & FRL410 SERIES

PCMount 0.1" grid spacing.

FUJITSU MFG #	Coil Volts	Amp Contacts rating	Stock #	Price Ea./M
FRL414D006/02C	6VDC	DPDT 2	7316	.50
FRL414D012/02CE	12VDC	DPDT 2	2721	.50
FBR442D012-21	12VDC	4PDT *	5815	.75
FBR442D024-P	24VDC	4PDT *	15080	.75
FRL414D048/04CE	48VDC	4PDT 2	7322	.65

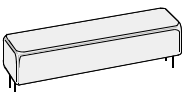
* = Sealed (Note above relays do not fit the NF footprint.)



MERCURY, WETTED RELAYS SWITCHING FROM MICRO AMPS TO AMPS FMR800 SERIES

Extremely long life, and Fast release.
No contact chatter.
Metal case PCMounting

FUJITSU MFG #	Coil	Contacts Rating	Stock #	Price Ea./M
FMR824D12/1AS	12VDC	SPST 1A	10996	1.00
FMR824D24/1AS	24VDC	SPST 1A	18207	1.00
FMR874D10/1CS	10VDC	SPDT 2A	13740	.50
FMR874L20/1CS-1220VDC *	1220VDC	SPDT 2A	10997	1.00
FMR878D12/1CS	12VDC	SPDT 2A	7330	1.75



LOW PROFILE PCMount REED RELAYS FRL760 SERIES

Resin potting, High dielectric, 0.1" pitch terminals.

FUJITSU MFG #	Coil	Contacts Rating	Stock #	Price Ea./C
FRL764D12/2AS02	12VDC	DPST 0.5A	20969	.35
FRL764D24/2AS	24VDC	DPST 0.5A	12522	.35
FRL764A24/4AS	24V	4PST 0.5A	13508	.60
FRL764D24/4AS	24VDC	4PST 0.5A	12524	.60
FRL764Z24/4AS01	24V	4PST 0.5A	2944	.60
FRL768D05/1AS	5VDC	SPST 0.5A	12523	.25
FRL768D24/1AS	24VDC	SPST 0.5A	12534	.25

OMRON RELAYS

DERF

ELECTRONICS CORPORATION

E-MAIL sales@derf.com

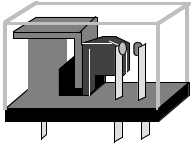
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HC 3 Box 932-1, Scott Thomson Road
Old Town, Florida 32680
Phone (352) 542-8002 • Fax (352) 542-3370

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Call Toll Free

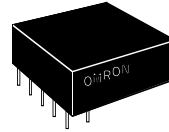
1-800-431-2912
(Outside NY)
1-800-874-3373
(Outside FL)



POWER RELAYS 10 & 15 AMP CONTACTS 24VDC 740 OHM COIL

Direct PCMounting. Removeable covers.

OMRON MFG #	Contacts	Rating	Stock #	Price	
				Ea./C	Ea./M
G4W-2212P-VD-TV-5-HP	DPST	10A /TV-5	18026	1.50	.95
G4W-1112P-US-TV8-6008	SPST	15A /TV-8	2656	1.25	.75

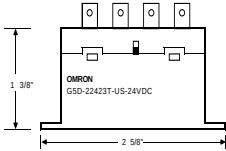


FLAT PACK POWER RELAY SPDT 10 AMP CONTACTS TV-5 RATED 12 & 24VDC COILS

Direct PCMT

Size: L = .112" W = .102" H = .43"

OMRON MFG #	Coil Volts	mW Pwr.	Stock #	Price	
				Ea./C	Ea./M
G2L-113P-US-12DC12VDC	12VDC	500	11770	.50	
G2L-113P-US-24DC24VDC	24VDC	500	5847	.50	

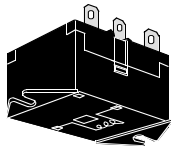


TV-8 POWER RELAY DPST(N/O) 20 AMP CONTACTS 24VDC 300 OHM COIL PUSH TO TEST BUTTON

Flange mounting-1/4" quick connects.

Size: L = 2.70" Max. W = 1.32" Max. H = 1.83" Max.

OMRON MFG #	Stock #	Price	
		Ea./C	Ea./M
G5D-22423-US	18027	1.75	1.10



30 AMP POWER RELAY SPST(N/O) CONTACTS 24VDC COIL

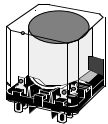
FEATURES:

High contact pressure, double contacts, Dielectric strength of 4 KVAC
Push-to-test button

Flange mounting, 1/4" Quick connectors

Size L = 2.70" Max. W = 1.32" Max. H = 1.83" Max.

OMRON MFG # G5D-11423T-US Stock # 15322 Price Ea./M .95

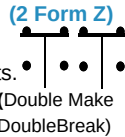


HIGH POWER RELAY DPDT 25 AMP CONTACTS (2 Form Z) 24VDC COIL

Size : 1.5" square X 2.25" high, Terminals 1/4" quick connects.

Specifications : Resistive 25A@ 277 VAC

OMRON MFG #	Stock #	Price Ea. /C
MP-24VDC	21400	3.95

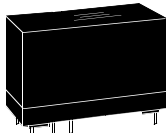


LOW COST PC MOUNTING OPEN FRAME & SEALED RELAY SPDT & SPST 30 AMP CONTACTS 24VDC COIL

PCMOUNTING OPEN FRAME , IDEAL for industrial applications,(HVAC.)

OMRON MFG #	Coil	Contacts	Stock #	Price Ea./M
G8P-111P-CF-US-24V	24VDC	SPDT	21449	.68
G8P-114P-US-24V	24VDC	SPST	33851	.75

NOTE : Other Mfg see T90 TYPE page 1



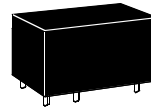
SLIM - LINE POWER RELAY 5 TO 10 AMP CONTACTS

Size: L = 1.126" W = .504" HH = 1.025

PCMounting, Ideal for space saving on PCBoards..

OMRON MFG #	Coil	Contacts		Stock #	Price	
		Form	Rating		Ea./M	
G2R-1117P-V-H-U	5VDC	SPST	10A	29650	.85	
G2R-2-DC5V	5VDC	DPDT	5A	33153	1.20	
G2R-1-DC12V	12VDC	SPDT	10A	33558	1.10	
G2R-1123T-V-US	24VDC	SPDT	10A	33544	1.00	
G2R-2-DC24	24VDC	DPDT	5A	34177	1.20	
G2R-1-E-110VDC	110VDC	SPDT	16A	33181	.95	
G2R-117-V-US-110	110VDC	SPDT	10A	1359	1.45	
G2R-117P-V-US	120VAC	SPDT	10A	33185	call	

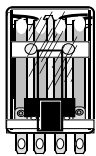
NOTE: Other Mfg. = to G2R see page 24 Slim Type Power Relays.



MINI DIP RELAYS SPDT 2 AMP CONTACTS High Sensitive Coils 98mW

Size: H = .31" W = .39" L = .63", Bifurcated crossbar contacts .

OMRON MFG #	Coil	Contacts		Stock #	Price	
		Rating	Term		Ea./C	
G6E-134P-ST-US	5VDC	2A	21118	1.00		
G6E-134C-ST-US	12VDC	2A	21320	1.00		
G6E-134P-ST-US	24VDC	2A	14633	1.00		
G6E-134P-ST-US	48VDC	2A	21321	1.00		



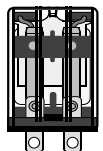
MULTI CONTACT GENERAL PURPOSE RELAY 3 AMP CONTACTS

High reliability, long life.

Ultra-high sensitivity with quick response.

OMRON MFG #	Coil	Contacts		Stock #	Price	
		Form	Term		Ea./C	
MY3-02-DC24V	24VDC	3PDT	PC	33107	1.00	
MY4-UA-DC24V	24VDC	4PDT	Lug	15500	1.20	

NOTE : Other Mfg. = to MY see page 8 KHU General purpose relays.

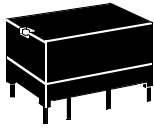


GENERAL PURPOSE POWER RELAYS DPDT 7 to 10 AMP CONTACTS

Arc barrier equipped, High dielectric strength (2,000 VAC).

OMRON MFG #	Coil	Termination	Stock#	Price	
				Ea./C	
LY2-0-VDC12	12VDC	PCMT	33180	call	
LY2-VD-220VAC	220VAC	Solder lug	33905	1.45	
LY2-US-22C-240V	240VAC	Solder lug	6526	call	

NOTE: Other Mfg. = to LY2 see page 8 High Current GP K10 Type.



SUBMINIATURE DIP RELAY DPDT 1 AMP CONTACTS 24VDC POLARIZED COIL SENSITIVE COIL 200 mW

Size: L = .63" W = .39" H = .33" Fits standard dip socket.

OMRON MFG #	Coil Volts	Stock #	Price Ea./M
G5A-237P-4.5VDC	4.5VDC	27725	Call
G5A-237P-24VDC	24VDC	19967	Call

Note: See page 13 for other subminiature dip relays.

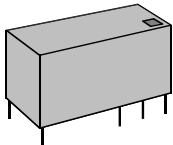


MINIATURE TV-5 RELAY SPST(open) 10 AMP CONTACTS SENSITIVE DC COIL

PC Mounting

Size: L = .79" W = .59" H = .39" Plastic - sealed.
 Approx. 200mW coil power.

OMRON MFG #	Coil Volts	Stock #	Price Ea./C	Ea./M
G6C-1114P-US-DC12	12VDC	33848	1.25	.80
G6C-1114P-US-DC24	24VDC	2406	1.25	.80

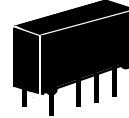


MINIATURE DIP RELAY DPDT 1.5 AMP CONTACTS

Size: L = .80" W = .40" H = .43" Fits standard 16 Pin dip socket.

OMRON MFG #	Coil Volts	mW Pwr.	Stock #	Price Ea./M
G2VN-284P-US-5VDC	5VDC	360	33205	1.25
G2VN-234P-US5VDC	5VDC	360	29652	1.25
G2VN-284P-US-12VDC	12VDC	360	33207	1.25
G2VN-234P-US-48VDC	48VDC	540	20570	1.25
G2VN-234P-US-48VDC	48VDC	360	21111	1.25

Note: See page 7 for other Manf. of dip relays (RZ STYLE).



ULTRA - THIN DPDT 2 AMP CONTACTS SINGLE COIL LATCHING RELAY

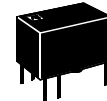
Direct replacement for
 Aromat TW series (see page 3)

Sealed construction allows automatic washing.

Size: L = .579" W = .289" H = .427"

OMRON MFG #	Coil Volts	Stock #	Price Ea./M
G6NU2-UA-006102	12VDC	18796	Call

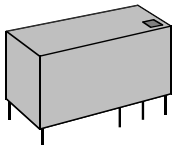
(see page 18 for definition of latching relays)



MINIATURE SPDT RELAYS 1 AMP CONTACTS

Size: L = .610" W = .413" H = .453"
 Ideal for telecommunications equipment.

OMRON MFG #	Coil Volts	Coil mW	Epoxy Sealed	Stock #	Price Ea./M
G2E-184P-5DC	5VDC	450	Yes	2251	.58
G2E-6VDC	6VDC	450	No	5040	.25



MINIATURE LATCHING DIP RELAYS DPDT 1 AMP CONTACTS SENSITIVE DUAL POLARIZED COILS

1st Coil latches, 2nd coil unlatches.
 (see page 18 for definition of latching relays)

Size: L = .8" W = .40" H = .33" Fits 16 pin dip socket..

OMRON MFG #	Coil Volts	mW Pwr.	Stock #	Price Ea./M
G6AK-234P-ST-US-DC3	3VDC	200 *	15692	.75

Note: See page 18 for other MFG of latching relays.



LOW COST 5 AMP SLIM SPST (N.O.) RELAY 24VDC COIL UL & CSA RATED PC MOUNTING IDEAL RELAY FOR DENSE PACKAGING

Size: .95" max. x .37" max. x .98" max.

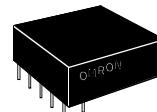
OMRON MFG #	Construction	Stock #	Price Ea./M
G5P-1-24VDC	semi-sealed	33850	.65



SUBMINIATURE SPDT RELAYS 1 AMP CONTACTS

Size: L = .510" W = .390" H = .310"
 Ideal for interface applications.

OMRON MFG #	Coil Volts	Coil mW	Epoxy Sealed	Stock #	Price Ea./M
G2Q-184P-V-5VDC	5VDC	280	Yes	5827	.95



FLAT PACK - LOW PROFILE R F HIGH FREQUENCY RELAY SPDT CONTACTS SHIELDED TO 900 mhz 12VDC 325 OHM COIL

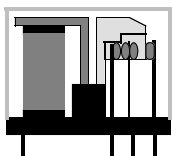
TYPICAL APPLICATIONS: CATV, VCR'S.

Size: H=.40" L= 1.5" W= .855"

Shield plate provides excellent high frequency isolation of 65db.

Typical specifications: Insertion loss of .25db VSWR of 1.6@ 900mhz

OMRON MFG #	Type housing	Stock #	Price Ea./C	Ea./M
G4Y-152P-12VDC	Unsealed	9980	1.75	1.35
G4Y-154P-12VDC	Sealed	9979	1.85	1.45



SPDT POWER RELAY 10 AMP CONTACTS 24VDC 1140 OHM COIL

Direct PC Mounting. Removeable covers.
 Size: 1.110" x .425" x 1.050"

OMRON MFG #	Contacts	Rating	Stock #	Price Ea./M
G2L-113P-V-US-24VDC	DPST	10A /TV-5	33844	.50

TIME DELAY RELAYS & POWER RELAYS

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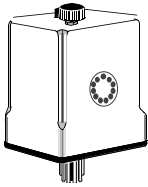
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ADJUSTABLE 12 AMP TIME DELAY RELAYS SPST(NO) CONTACTS

Input: 120V 50/60 hz
Delay on Operate (Delay before on)
Adjustable Timing by top knob
+/- .1% Repeatability
.187" Quick connects

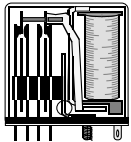
MAGN MFG #	Timing Range	Stock#	Price Ea.
388ACSP0X-42	0.1 to 10 Sec.	9266	10.95
388ACPSOX-44	1.0 to 180 Sec.	9267	10.95



ADJUSTABLE 10 AMP TIME DELAY RELAYS DPDT CONTACTS

Input: 120 V 50/60 hz
Adjustable Timing by top knob
+/- .1% Repeatability
11 Pin Octal Style Plug

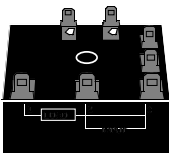
MAGN MFG #	Timing Range	Stock#	Price Ea.
W211ACPSRX-7	1.0 to 180 Sec.	9269	9.95
(P&B # CKB-38-70013)			
DELAY ON RELEASE (Delay before off)			
W211ACPSOX-18	0.1 to 1.0 Sec.	9264	9.95
700-HT12BA1	1.0 Sec 180 Sec.	12042	7.95



ADJUSTABLE TIME DELAY RELAY DPDT 3 AMP CONTACTS

Input Voltage 20VDC
Delay Adjust 1.0 to 30 Seconds (by external resistor)

Repeatability + & - 3 %
Size : L = 1.375" Max. W = .735" Max. H = 1.187" Max.
Solder lug Termination
P&B MFG # **Stock #** **Price Ea.**
R12-050-1 5639 2.95



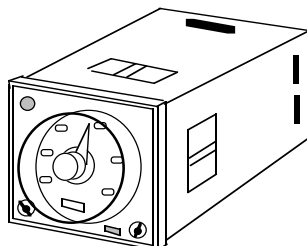
SOLID STATE TIMERS 120VAC @ 1 AMP (NO) CONTACT

Size 2"x2"x3/4" .250" Dia. hole for mounting
1/4" Quick connects
Input 120VAC contact N.O. (LOAD)

MFG	MFG #	Description	Stock#	Price
SSAC	TSB424	External time delay adjust by resistor (Delay before break)	5164	5.95/C
SSAC	TS141600	Fixed 600 Sec.(delay before make)	19174	4.95/C
SSAC	TS141160	Fixed 160 Sec. (delay before make)	20921	3.50/C

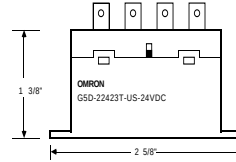
SOLID STATE TIMER OMRON H3BA-8 DPDT ON DELAY 5 AMP CONTACTS OCTAL PLUG-IN

Selectable 6 Window settings
Adjustable Rated time .5 to 10
Delay time range .1 sec to 10 0 hours



Stock # 35243

Price Ea. \$11.95



30 AMP SPST (NO) & 20 AMP DPST (NO) LOAD SWITCHING POWER RELAYS

FEATURES:

High contact pressure, double contacts, Dielectric strength of 4 KVAC
Push-to-test button
Flange mounting, 1/4" Quick connectors
Size L= 2.70" Max. W= 1.32" Max. H= 1.83" Max.

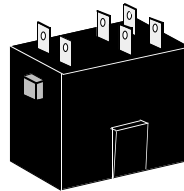
MFG	MFG #	Coil Volts	Contacts	Stock #	Price Ea./M
OMRN	G5D-11423T-US	24VDC	SPST	15322	1.65
OMRN	G5D-22423T-US	24VDC	DPST	33108	2.50
OMRN	G5D-22423T-US	120VAC	DPST	33124	2.25

CELEBRATING

1946

50
YEARS

1996



20 AMP AROMAT HEAVY DUTY POWER RELAY, 120VAC COIL 2 FORM Z CONTACTS

Typical applications:
Home appliances, office equipment, power devices,
automatic vending machines, HVAC systems.
Size: L =2.047" x W =.1.181" x H =2.224
Terminations .25" Quick Connects

MFG #	Stock #	Price Ea.
VC20-2a-AC120V	34328	\$4.95



16 AMP DPST (N.O.) 24VDC COIL RELAY UL & CSA listed

KHU type w/ears and quick connects

MFG SCHRACK # RM 503 024	
Stock # 34144	Price Ea./C .75

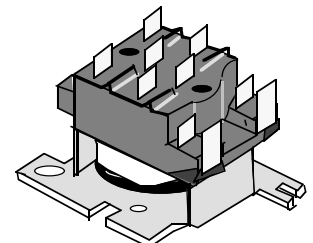
CONTACTOR

25AMP HONEYWELL CONTACTOR SPDT CONTACTS- 208/240VAC COIL

Ideal for HVAC for high current is switched, (compressor or motor.)
See chart below for contact ratings,

VOLTS	AFL	ARL	AMP RES.
120	16	96	25
120/240	18	72	25
277	12	72	25
480	5	30	15
600	-	-	10

HONEYWELL P/N R4228B 1011
Stock # 25923 **Price Ea. \$6.95**



HERMETICALLY SEALED RELAYS & AUTOMOTIVE RELAYS

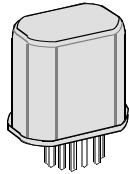
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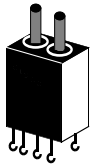
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HERMETICALLY SEALED RELAYS



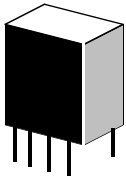
MFG P&B
Stock # 11002

**HERMETICALLY SEALED
OCTAL PLUG-IN RELAY**
3PDT 10 Amp Contacts
120V 50/60 HZ Coil
(see page 19 for socket)
P/N # KR14AGE
Price Ea./C 29.95, Ea.. \$35.00



MFG SIGMA
Stock # 5952

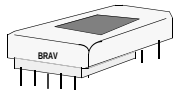
**HERMETICALLY SEALED
LATCHING CRYSTAL CAN RELAY**
26.5 VDC Single Coil Latching
DPDT 2 Amp Contacts
Size: L=.75" W=.375" H=.875" # 4 Studs x .375"
P/N # 32RJK2-1950G-SIL
Price \$12.95 ea. \$3.95ea./C



MFG BABCOCK
Stock # 5944

**HERMETICALLY SEALED
CRYSTAL CAN RELAY**
26 VDC 675 ohm Coil
DPDT 2 Amp Contacts
PC Mounting Pins
Size: L=1.015" W=.515" H=.885"

P/N# BR24-675A1
Price Ea/C \$2.95



MFG DEUTSCH
Stock # 5945

**HERMETICALLY SEALED
FLAT PACK RELAY**
SENSITIVE 26.5VDC 5K OHM COIL
DPDT 2 AMP CONTACTS
HIGH RELIABILITY
Size L = 1.380" W = .80" H = .470"
Glass to Metal seal terminals .2" grid spacing

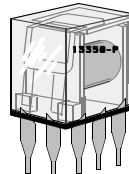
P/N BRAV281P6A-
Price Ea./C \$3.95

MISC. HI-REL & MIL HERMETICALLY SEALED RELAYS

MFG	MFG #	Description	Stock #	Qty
LEAC	MS27742-1	28VDC coil, 3PDT 25A	25797	2
STD	MS277435	28VDC coil, 3PDT	25779	27
LEAC	MS27745-1	28VDC coil, 4PDT 10A	25803	7
TELE	DS72503-3	DPDT 8 pin TO-5 can	25783	35
COMM	M39017/22-009L	5VDC coil, DPDT	25898	51
GENI	3SAV1299A2	180 ohm coil, DPDT	25899	21
	M6106/39	28VDC coil, 4PDT 5A	25900	6
GENI	3SAF5134E2	200 ohm coil, DPDT	25902	2
GENI	3SAM6135M2	970 ohm coil, DPDT	25903	3
BBCK	BR7X-450E1-26V	26VDC coil, SPDT 10A	25917	3
GENI	3SAV1302A2	1030 ohm coil, DPDT	25918	6
LEAC	M6106/28-017	28VDC coil, 4PDT 5A	25919	3
LEAC	KDL-D2A-002	28VDC coil, 3PST(NO)	25922	1

CALL FOR PRICE ON ABOVE LISTED RELAYS

HVAC RELAY

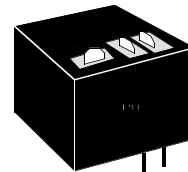


Typical Applications: Heating & Cooling Systems
Size: L = .875" W = .75" H = 1.062
Stock # 14632

**MINIATURE
DPDT RELAY**
5 AMP CONTACTS
24 VAC 250 OHM COIL
GUARDIAN SERIES 1330-P
Extended PC Mounting Pins,
Gold Plated Contacts.

Price Ea./M .50

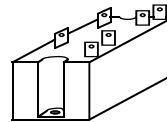
AUTOMOTIVE RELAYS



MFG P&B
Stock # 18686

**20 AMP SPDT
AUTOMOTIVE
PCMT RELAY**
Sealed PCMT
1/4" Quick connects on top.
12 Volt DC coil.
UL & CSA Listed
Size: L=1.265" W=1.060" H=1.085

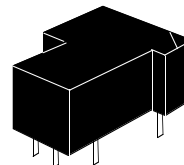
P/N # T91S5D22-12
Price Ea./C \$1.25



Contact Rating 30 Amp @ 277 vac, Resistive
Size: 1 15/16" x 1 1/4" x 1 3/4", Mounting centers 1 9/16"
Terminations 1/4" Quick connects

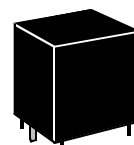
Matsushita MFG # Stock # Price Ea Ea/C
JH1a-L2-DC12V 17781 4.94 3.25

30 AMP LATCHING POWER RELAY
SPST (NO) CONTACTS
DUAL 12VDC 75 OHM COILS



MFG	MFG #	Coil Volts	Stock #	Price Ea./C
AZ	AZ2100-1A-12DE	12VDC	14107	.99
SCHR	ZD322-012	12VDC	27500	.95
HASC	HAT901ASDC12	12VDC	33551	.85
SKY	SKJBS-1A	12VDC	25044	.78
P&B	T90S1D12-12	12VDC	29350	1.10

T90 SERIES POWER RELAYS
SPST (N.O.) 30 AMP CONTACTS
12 VDC COIL, SEALED PCMT



MFG	Coil Volts	Coil ohms	Stock #	Price Ea./10M
H G				
MFG #				
HG4130 012-Z1C	12VDC	400	28538	.45

10 AMP 12VDC COIL SPDT
ICE CUBE SIZE RELAY
IDEAL AUTOMOTIVE REPLACEMENT
RELAY OR ADD ON EQUIPMENT.

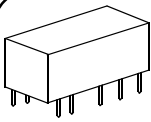
LATCHING RELAYS

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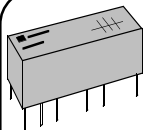


MINIATURE DPDT DIP LATCHING RELAYS 2 AMP CONTACTS DUAL COIL LATCHING

CALL FOR PRICING

Size: L = .787" W = .390" H = .366"

AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS2E-SL2-DC1.5V	1.5VDC	180mW	12
DS2E-ML2-DC1.5V	1.5VDC	360mW	6.25
DS2E-SL2-DC3V	3VDC	180mW	50
DS2E-ML2-DC3V	3VDC	360mW	25
DS2E-SL2-DC5V	5VDC	180mW	139
DS2E-ML2-DC5V	5VDC	360mW	69
DS2E-SL2-DC6V	6VDC	180mW	200
DS2E-ML2-DC6V	6VDC	360mW	100
DS2E-SL2-DC9V	9VDC	180mW	450
DS2E-ML2-DC9V	9VDC	360mW	225
DS2E-SL2-DC12V	12VDC	180mW	800
DS2E-ML2-DC12V	12VDC	360mW	400
DS2E-SL2-DC24V	24VDC	180mW	3200
DS2E-ML2-DC24V	24VDC	360mW	1600
DS2E-SL2-DC48V	48VDC	180mW	12800
DS2E-ML2-DC48V	48VDC	360mW	6400



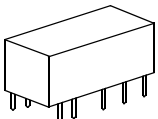
MINIATURE 4PDT DIP LATCHING RELAYS 2 AMP CONTACTS DUAL COIL LATCHING

PRICING FROM 1.95

Size: L = 1.387" W = .390" H = .366"

Fits into two14 pin dip sockets in tandem.

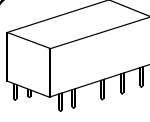
AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS4E-SL2-DC1.5V	1.5VDC	180mW	12
DS4E-ML2-DC1.5V	1.5VDC	360mW	6.25
DS4E-SL2-DC3V	3VDC	180mW	50
DS4E-ML2-DC3V	3VDC	360mW	25
DS4E-SL2-DC5V	5VDC	180mW	139
DS4E-ML2-DC5V	5VDC	360mW	69
DS4E-SL2-DC6V	6VDC	180mW	200
DS4E-ML2-DC6V	6VDC	360mW	100
DS4E-SL2-DC9V	9VDC	180mW	450
DS4E-ML2-DC9V	9VDC	360mW	225
DS4E-SL2-DC12V	12VDC	180mW	800
DS4E-ML2-DC12V	12VDC	360mW	400
DS4E-SL2-DC24V	24VDC	180mW	3200
DS4E-ML2-DC24V	24VDC	360mW	1600
DS4E-SL2-DC48V	48VDC	180mW	12800
DS4E-ML2-DC48V	48VDC	360mW	6400



DPDT DIP LATCHING DUAL 12VDC COILS

Fits standard 16 pin dip socket

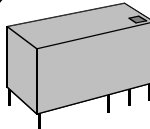
MIDLAND ROSS MFG #	Contacts	Price Ea./M
327-21B200	DPDT (Bif)	1.00



MINIATURE DPDT DIP LATCHING RELAYS 1 AMP CONTACTS DUAL COIL LATCHING

Size: L = .8" W = .40" H = .33"

OMRON MFG #	Coil Volts	Coil Power	Price Ea./M
G6AK-234P-ST-US-DC3	3VDC	200	.75
G6AK-234P-ST-US-DC24	24VDC	200	.95

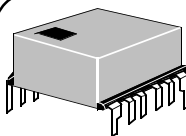


MINIATURE DPDT DIP LATCHING RELAYS 2 AMP CONTACTS SINGLE COIL LATCHING

PRICING FROM .99

Size: L = .787" W = .390" H = .366"

AROMAT MFG #	Coil Volts	Coil Power	Coil ohms
DS2E-SL-DC1.5V	1.5VDC	90mW	25
DS2E-ML-DC1.5V	1.5VDC	180mW	12.5
DS2E-SL-DC3V	3VDC	90mW	100
DS2E-ML-DC3V	3VDC	180mW	50
DS2E-SL-DC5V	5VDC	90mW	278
DS2E-ML-DC5V	5VDC	180mW	139
DS2E-SL-DC6V	6VDC	90mW	400
DS2E-ML-DC6V	6VDC	180mW	200
DS2E-SL-DC9V	9VDC	90mW	900
DS2E-ML-DC9V	9VDC	180mW	450
DS2E-SL-DC12V	12VDC	90mW	1600
DS2E-ML-DC12V	12VDC	180mW	800
DS2E-SL-DC24V	24VDC	90mW	6400
DS2E-ML-DC24V	24VDC	180mW	13200
DS2E-SL-DC48V	48VDC	90mW	25600
DS2E-ML-DC48V	48VDC	180mW	12800



2 & 4 POLE LATCHING FLATPACK RELAYS DUAL COILS

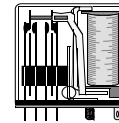
AROMAT MFG #	Coils	Contacts	Rating	Price Ea./C
NC2ED-JPL2=DC5V	5VDC	DPDT	3Amp	Call
NC2ED-JPL2-DC12V	12VDC	DPDT	3 Amp	Call
NC4-JPL2-DC12V	12VDC	4PDT	4Amp	Call



SENSITIVE DIP LATCHING RELAY DUAL 5VDC COILS SPST(NO) CONTACTS

High Speed Switching, Direct TTL drive possible.
Contacts switching as low as 10 Micro Amps.
Metal shield, Sensitive 5 VDC coil,
72 to 133 mW of coil operating power.

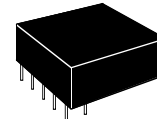
AROMAT MFG #	Stock #	Price Ea./C
R1A-SL2D-5V	17690	1.50



2 & 4 POLE LATCHING RELAYS

Clear Polycarbonate Dust Cover

P&B MFG #	Coil Volts type	Contacts form rating	Price EA./M
R30DE1W2V60024VDC	Dual	DPDT 7.5 A	2.75
R40E3Z4V200	12VDC Single	4PDT 2.0 A	2.50



4PDT FLAT PACK LATCHING RELAY

DUAL 5 VDC COILS

2 Amp contacts PC MOUNT

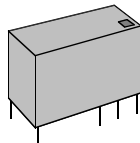
Size: L = 1.169" W = .957" H = .453"

NEC MFG #	Stock #	Price Ea./C
MR24-L5S	8218	1.95



KUL SERIES LATCHING RELAYS DUAL LATCHING COILS

MFG	MFG #	Coil Volts	Contacts Form Rating	Price Ea./C
SD	285XBXC1	12VDC	DPDT 10 AMP	3.50
P&B	KUL11D11D24	24VDC	DPDT 5 AMP	2.50



ULTRA - THIN DPDT 2 AMP CONTACTS LATCHING RELAY LOW POWER SINGLE 12VDC COIL

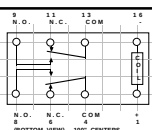
Sealed construction allows automatic washing
Size: L = .579" W = .289" H = .427"

OMRON MFG #	Coil Volts	Stock #	Price Ea./M
G6NU2-UA-006102	12VDC	18796	.85

DEFINITION OF LATCHING RELAYS

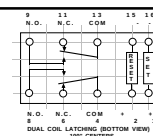
SINGLE COIL LATCHING:

DC Power to coil transfers contacts. Contacts maintain after coil power is removed. To transfer contacts to original position, DC Power to the coil is reversed. Contacts maintain after coil power is removed.



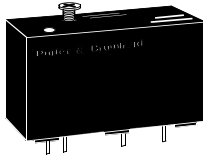
DUAL COIL LATCHING:

DC Power to coil # 1 transfers contacts. Contacts maintain after DC Power to coil #1 is removed. DC Power to coil #2 transfers contacts to original position. Contacts maintain after power to coil #2 is removed.



I/O LOGIC MODULES & RELAY SOCKETS

DIGITAL I/O LOGIC (INPUT / OUTPUT) MODULES



Ideal for relay replacement in many applications.

TYPICAL APPLICATIONS:

Relays, Solenoids and Contactors, Lamps and Indicators.

FEATURES:

Easy interfacing to computer I/O ports

Manufactures: Crydom, Opto 22, Motorola, A-B and P&B.

4000 VAC of ISOLATION

Short circuit protection

Triac 3 amp AC switching, Zero voltage turn on.

5-28VDC logic levels.

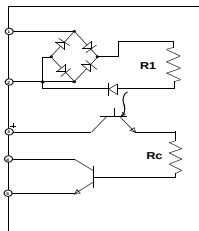
Built in filtering for transient suppression and noise rejection.

Size: L = 1.675" W = .550" H = 1.25"

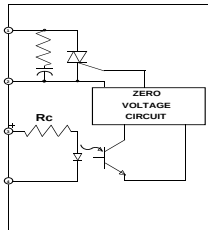
Type	Input level	Output level	Price Ea./C
OAC5A	5 VDC logic	24-240 VAC	4.50
OAC15	15 VDC logic	12-140 VAC	3.95
OAC15A	15 VDC logic	24-250 VAC	4.50
OACBAI	5-28 VDC logic	24-280 VAC *	4.50
IAC5	90-140 VAC	5 VDC logic o/c	3.95
IAC5A	180-280 VAC	5 VDC logic o/c	4.50
IAC15A	180-240VAC	15VDC logic o/c	4.50
IACBAI	180-280VAC	5-28VDC logic *	4.50
ODC5	5VDC logic	5-60VDC	3.95
ODC15	15VDC logic	5-60VDC	3.95
IDC5	10-32VDC	5VDC logic o/c	3.95
ODCB	5-28VDC logic	0-60VDC	4.50

FOR QTYS LESS THAN 100 PCS ADD 50% TO 100 PC. PRICE

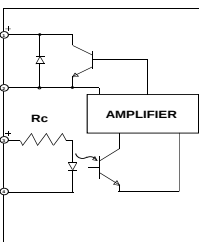
AC/DC INPUT



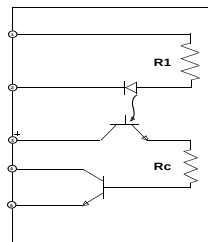
AC OUTPUT



DC OUTPUT



DC INPUT



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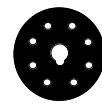
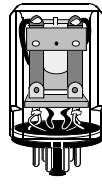
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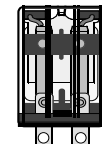
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(Outside NY)
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(Outside FL)

RELAY SOCKETS

SOCKETS FOR OCTAL PLUG-IN RELAYS



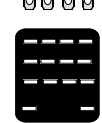
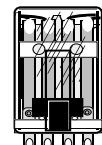
MFG	MFG #	P&B =	Description	Termination
CC	RB08		DPDT 8 pin	Binder Head Screws
CC	RB08-PC		DPDT 8 pin	Pressure Clamp Screws
CC	RB11		3PDT 11 pin	Binder Head Screws
CC	RB11-PC		3PDT 11 pin	Pressure Clamp Screws
CC	OB08-PCB		DPDT 8 pin	PC Board
CC	OT08		DPDT 8 pin	Binder Head Screws
CC	OT08-PC	27E122	DPDT 8 pin	Pressure Clamp Screws
CC	OT11		3PDT 11 pin	Binder Head Screws
CC	OT11-PC	27E123	3PDT 11 pin	Pressure Clamp Screws
DIN Rail Mountable				
CC	OT08		DPDT 8 pin	Binder Head Screws
CC	OT08-PC		DPDT 8 pin	Pressure Clamp Screws
CC	OT11		3PDT 11 pin	Binder Head Screws
CC	OT11-PC		3PDT 11 pin	Pressure Clamp Screws



MFG	MFG #	P&B =	Description	Termination
CC	GR105-PCB		SPDT 5 pin	PC Board
CC	GR-105-SLD		SPDT 5 pin	Solder
CC	GR108-PCB	27E489	DPDT 8pin	PC Board
CC	GR108-SLD	27E488	DPDT 8 pin	Solder
CC	GR108		DPDT 8 pin	Binder-Head Screws
CC	GR108-PC	27E487	DPDT 8 pin	Pressure Clamp Screws
DIN Rail Mountable				
CC	GT08-PC		DPDT 8 pin	Pressure Clamp Screws

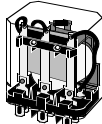
SOCKETS FOR K10 TYPE RELAYS

SOCKETS FOR KHU TYPE RELAYS



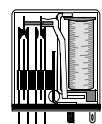
MFG	MFG #	P&B =	Description	Termination
CC	MR14-PCB-2		DPDT 8 Pin	PC Board
CC	MR14-PCB	27E007	4PDT 14 Pin	PC Board
CC	MR14-SLD-2		DPDT 8 Pin	Solder
CC	MR14-SLD	27E006	4PDT 14Pin	Solder
CC	MT 14-PC	27E166	DPDT or 4PDT	Pressure Clamp Screws
DIN Rail Mountable				
CC	ST08		DPDT 8 pin	Binder Head Screws
CC	ST08-PC		DPDT 8 pin	Pressure Clamp Screws
CC	ST11		3PDT 11 pin	Binder Head Screws
CC	ST11-PC		3PDT 11 pin	Pressure Clamp Screws
CC	MT14-PC		4PDT 14 pin	Pressure Clamp Screws
CC	HDB-4		Hold Down Bail	Accessories

SOCKETS FOR KUP TYPE RELAYS



MFG	MFG #	P&B =	Description	Termination
CC	CM11-SLD	27E043	3PDT 11 pin	Solder Lug
CC	CM11-QDC	27E067	3PDT 11 pin	Quick Connect
CC	CM11-PCB	27E046	3PDT 11 pin	PC Board
CC	SS11-PC	27E121	3PDT 11 pin	Pressure Clamp Screws
CC	HDB-5		Hold Down Spring For CM Sockets	

SOCKETS FOR R10 TYPE RELAYS



MFG	MFG #	P&B =	Description	Termination
P&B	27E128		DPDT 10 pin	PC Board W/clips
P&B	27E126		4PDT 16 pin	Solder W/clips
P&B	27E129		4PDT 16 pin	PC Board W/clips
P&B	27E164		6PDT 20 pin	Solder Lug
P&B	27E630		6PDT 22 pin	PC Board

MISCELLANEOUS SOCKETS

MFG	MFG #	Description	Termination
OMRN	PT14-0	4PDT 14 pin	PC Board for LY4 Relay
OMRN	PL-11	3PDT 11 pin	Octal Back connecting
GRDN	1330-2PC	DPDT 8 pin	PC Board for 1330 Series

TELECOMMUNICATIONS APPLICATION RELAYS

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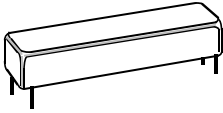
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COMPACT REED RELAY 2 FORM A CONTACTS 12VDC COIL

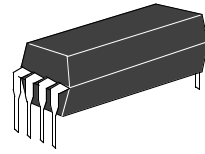
- Contacts 12VA.
- 730 ohm, 198mW, coil.
- PC Mount, .100" grid spacing.

MFG FJTS

P/N FRL764D12/2ASO2

Stock # 20969

Price Ea./C .50



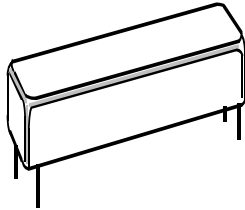
EPOXY MOLDED DRY REED RELAY 2 FORM A CONTACTS 6VDC COIL

- Load handling up to 10VA.
- Ideal for telecommunications.
- 630 ohm coil

Size: body .840" x .410" x .335" LS 1.0" x .100" spacing
MFG CLARE P/N 951 A12 B2A 251

Stock # 5054

Price Ea./C .50



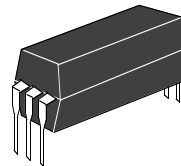
ELECTROSTATIC SHIELDED WETTED REED RELAY 1 FORM C CONTACTS 5VDC COIL

- Billion operation-bounce free life.
- Mercury wetted contacts.
- Ideal for telecommunications.
- Contact switching from nAmps to 2A
- 330 ohm coil

Size: body 1.6" x .550" x .395" LS 1.3" x .200" spacing
MFG CLARE P/N HGRM5111MO4

Stock # 13741

Price Ea./C .75



EPOXY MOLDED WETTED REED RELAY 1 FORM A CONTACTS 12VDC COIL

- Billion operation-bounce free life.
- Mercury wetted contacts.
- Ideal for telecommunications.
- 500 ohm coil

Size: body 1.125" x .435" x .385" LS 1.350" x .100" spacing
MFG CLARE P/N 851 A12 B1A

Stock # 104000

Price Ea./C .50



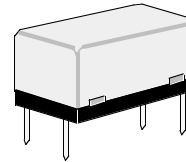
TELECOMMUNICATIONS DIRECT DATA INTERFACE DRY REED RELAY

- Approved & certified PBT & BSI
- UL & CSA listed
- 0.75A switching, 2A carry current
- 1 Form A contacts.
- 5VDC 525 ohm coil.
- 4kv Isolation

Size: Body 1.285" x .400" x .390"
MFG CLARE P/N CUPV10001

Stock # 27134

Price Ea./M 1.16



SPECIAL APPLICATION RELAY CURRENT SENSING

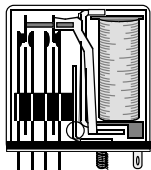
- 1 Form A contact
- 10 ohm 15Ma coil
- Ideal for telecommunications off hook.
- 5VA Max switching contact power.
- Size: L =1.135", W .455", H= .510"

MFG CLARE

P/N MRBS20043

Stock # 31578

Price Ea./M 4.50

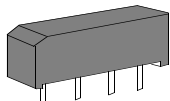


TELEPHONE STYLE RELAYS BIFURCATED LONG LIFE CONTACTS

ClearDust proof cover
General use in phone devices
Contact rating 1.25 Amps
Size:
4P = H = 1.85" X 1.05" X .725"
6P = H = 1.85" X 1.05" X .970"
PC Mounting .050" mult. centers

MFG	MFG #	Coil Volts	Contact	Stock #	Price Ea./C
CLRE	LB006K100	24 VDC	6PDT	16111	2.50
NEC	MR10-N17	48 VDC	4PDT	10681	2.50
CLRE	LA0022M101	48 VDC	4PDT *	1050	1.25

*= Form D (make before break)



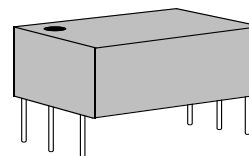
COTO SIP REED RELAY 1 FORM A CONTACT 12VDC COIL

Size: .75 x .2 x .3", Foot print lead spacing .2" x .2" x .2"
1000 ohm 12VDC coil, 1 form A contact, .5 Amps

MFG # 9000-0091

Stock # 35585

Price Ea./M .50



TELECOMMUNICATIONS LINE SENSE RELAY

Ideal for monitoring
telephone on-hook/off-hook

- Senses line current 15 to 170mA
- Coil resistance 9 ohms.
- 1 form A relay contact.
- 2KV isolation coil to contact.
- Magnetically shielded.

Size: L =1.125" W =.695" H =.480"

Contact rating: 200V, 500mA, Rated life 10 (7) operations.

MFG TELETONE P/N M-949-06

Stock # 30966

Price Ea./C 3.50

**SOLID STATE TELECOMMUNICATIONS
RELAYS AND SWITCHES SEE PAGE 22**

REED RELAYS

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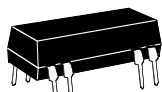
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CLARE DIP REED RELAYS

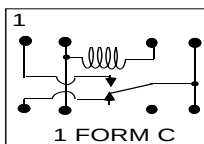
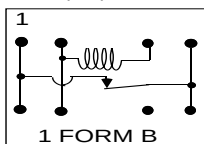
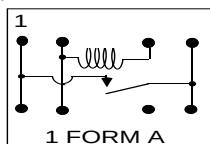
EROXY MOLDED

FITS STANDARD DIP SOCKETS

MFG#	Coil VDC	Coil Ohms	Contacts Form	Amp Rating	Stock #	Price Ea./M
PRMA1A05	5	500	SPST	.5	17217	.95
PRMA1B05	5	500	SPST (NC)	.5	17216	1.28
PRMA2A05	5	140	DPST	.5	14502	1.56
PRMA1A05B	5 *	500	SPST	.5	14403	1.78
PRMA1A12	12	1000	SPST	.5	9225	.95
PRMA2A12	12	500	DPST	.5	21726	1.65
PRMA1A24	24	2150	SPST	.5	21162	.95
PRMA1B24	24	2150	SPST (NC)	.5	9241	1.32
PRMA1C24	24	2150	SPDT	.25	9227	1.95
PRMA1C24B	24*	2150	SPDT	.25	9226	2.35
PRMA2A24	24	2150	DPST	.5	21308	1.72

(*) = diode across coil

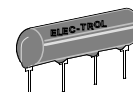
(NC) = norm. closed FORM B



SIP DRY REED RELAYS

HIGH DENSITY

LOW COST - EPOXY MOLDED



MFG	MFG #	Coil VDC	Contacts Form	Amp Rating	Foot Print	Stock #	Price Ea./M
GORD	741A-2	5 *	SPST	.25	A	6594	1.25
AMER	SE051A00	5	SPST	.5	B	10682	.95
HAML	HE3351B322	5	SPST (NC)	.5	B	5099	.90
STAN	EG200-1-5	5	SPST	.5	B	9416	.68
MAGN	W117S1P-1	5	SPST	.5	A	11991	1.35
MAGN	W117S1P-33	5 +	SPST (NC)	.5	A	11993	1.50
EAC	SB1A05A	5	SPST	.5	B	15443	.85
MAGN	W117SIP-3	12	SPST	.5	A	11297	1.35
COTO	9000-0091	12	SPST	.5	A	35582	.50

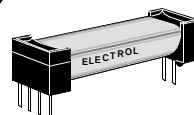
Foot print:

A= 2"x.2"x.2" B= .2"x.4" x.2"

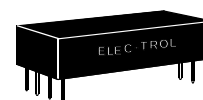
* = Diode across coil

+ = Shielded

(NC) = norm. closed

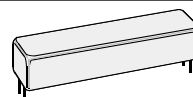


PCMT REED RELAYS



MFG	MFG #	Coil VDC	Contacts Form	Description	Stock #	Price Ea./M
GI	CUPV10001	5	SPST	Metal Shield Case	16932	1.00
ELEC	VPO2A05A10	5	DPST	Open Frame	21354	.35
STNX	J-11226	5	DPST	Epoxy Sealed	6020	.35
ELEC	VPS2A05A10	5	DPST	Epoxy Sealed	9185	1.50
ELEC	VPS6A0510	5	6PST	Epoxy Sealed	11809	2.50
CLRE	A12B2A 251	6	DPST	Epoxy Sealed	5054	.75
WABA	208-31-B1	6	SPST	Large Open Frame	20881	.30
HAML	HE434A6007	6+	4PST	Epoxy Sealed	10013	1.25
GI	MRB10217	12	SPST	Metal Shield Case	2108	Call
GI	MRB10237	12*	SPST	Metal Shield Case	21084	Call
WABA	208-15-2C1	12	SPST	Large Open Frame	20704	.55
CLRE	QRK11B-1	12	DPST	Metal Shield Case	18574	Call
NWPR	726-209-19	13.5L	SPST	Metal Shield Case	5984	2.95
GI	MRB10238	24	SPST	Metal Shield Case	21085	Call
FJTS	FMR824D24/1AS	24+	SPST	Metal Shield Case	18207	.75
GI	961A24Y1L(dual)	24L	SPST	Metal Shield Case	21086	Call
SGMA	19RE2C3-24G	24	DPDT	Epoxy Sealed	5977	2.25
ELEC	VPO4A05B12	24	4PST	Open Frame	21353	Call

+ = Mercury wetted * = Diode across coil L = Latching



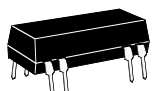
MERCURY WETTED REED RELAYS

FEATURES: Extremely long life,
No contact chattering,

Low Stable contact resistance. Operation and Release is Extremely fast.

MFG	MFG #	Coil VDC	Contacts Form	Amp Rating	Stock #	Price Ea./M
CLRE	HGRM-51111M04	5	SPDT	2.0	14375	2.50
CLRE	HGJ2MT54211G00	5	DPDT	2.0	14530	7.50
FJTS	FMR874D10/1CS	10	SPDT	2.0	14397	.92
CLRE	HRM1A12	12	SPST	0.75	5106	3.75
FJTS	FMR824D12-1AS	12	SPST	2.0	10996	1.25
FJTS	FMR878D120ICS	12	SPDT	2.0	7330	1.75
FJTS	FMR874L20/1CS12	20 *	SPDT	2.0	5055	1.75
CLRE	HRM1A24	24	SPST	0.75	11526	3.85
CLRE	HGRM51111P00	30	SPDT	2.0	9224	2.95
CLRE	HGWM51111W00	48	SPDT	2.0	7248	2.95

* =Dual coil latching ** = Diode across coil



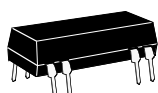
DIP DRY REED RELAYS

EPOXY MOLDED

FITS STANDARD DIP SOCKETS

MFG	MFG #	Coil VDC	Contacts Form	Amp Rating	Stock#	Price Ea./M
GORD	831A-1	5	SPST	.25	14355	.95
GORD	846A-2	5	SPST	.5	10331	1.15
MAGN	W172DIP-108	5	SPST	.5	11498	.75
MAGN	W171DIP-2	5	SPST	.5	9217	1.25
MAGN	171VDIP-25	5	SPST	.5	21760	call
MAGN	W173DIP-5	5	SPST	.5	16139	Call
ALEF	DB1A05BW	5	SPST	.5	21098	.75
EI&S	DL1A05	5	SPST	.5	21144	.72
HAML	HE721A05B	5	SPST	.5	11375	1.50
ELTL	RA30461051	5 *	SPST	.5	5955	1.95
EAC	D2A05A	5	DPST	.2	11552	Call
MAGN	W171DIP-22	5	DPST	.5	11321	1.60
WABA	80D84316F07	5	SPDT	.2	15545	Call
HAML	HE721R0510	5 *	SPDT	.2	17987	Call
EI&S	DL1CG05	5	SPDT	.5	12461	3.95
ELEC	RA30341051	5	SPST	.5	9186	1.15
GORD	851A-4	12	SPST	.5	11319	1.95
WABA	1619-4-1	12	SPDT	.5	10145	1.25
SGMA	191TE1A112G	12	SPST	.5	5834	1.25
MAGN	W171DIP-9	12 *	SPST	.5	9211	2.50
MAGN	W172DIP-7	12 *	SPDT	.5	13842	3.50

* = Diode across coil. (NC) = norm. closed



DIP MERCURY WETTED REED RELAYS

EPOXY MOLDED

FITS STANDARD DIP SOCKETS

MFG	MFG #	Coil VDC	Contacts Form	Amp Rating	Stock#	Price Ea./M
CLRE	MSS21A05	5	SPST	0.7	21928	1.90
MAGN	W174DIP-712*	12	SPST	2.0	11296	1.75
CLRE	MSS260002	24	SPST	1.0	9736	1.25
GORD	847C-5	24	SPDT	1.0	9229	2.25

SOLID STATE RELAYS & SWITCHES

DERF

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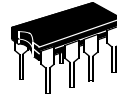
1-800-431-2912
(Outside NY)
1-800-874-3373
(Outside FL)



FLAT PACK SOLID STATE PC Mounting RELAYS

Contacts SPST(NO) Closes with DC input voltage.

MFG	MFG #	VDC Input	VAC Output	Load Amps	Stock #	Price Ea./C
MOT	P120D2	4-16	120	2	12242	2.50
OPTO	P120D2	3-32	120	2	17456	3.25
MOT	P120D3	4-16	120	3	8811	2.75
GORD	GB11230	5.0	120	3	12039	2.50
OPTO	P120D4	3-32	120	4	22453	4.00
MOT	P240D2	3-32	240	2	12240	3.25
MOT	P240D3	3-6	240	3	12241	3.25
OPTO	P240D4	3-32	240	4	10131	3.50



TELECOMMUNICATIONS DUAL BILATERAL SWITCH, WITH SURGE PROTECTION

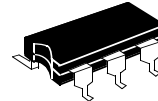
Nominal Vbo= 17.3V (+/- 0.5mV/Deg.C) Nominal I hold= 3 mA

MFG AT&T

Stock# 23944

MFG# LB1060AB

Price Ea/M .75



OPTICALLY COUPLED SOLID STATE RELAY 1 FORM A CONTACT

LH1540AAB (SMD)

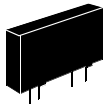
- BABT, UL & CSA listed • Output Specifications
Load Voltage (peak) : 350V
Load Current AC/DC 210mA
On Resistance 25 ohms AC/DC
- Input Control Current ,Nom 5VDC
- Input to Output Isolation 3750V

MFG AT&T

Stock # 29556

P/N LH1549AAB

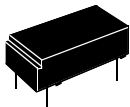
Price Ea./M 1.25



THIN-LINE SOLID STATE RELAYS

Direct PC Mounting
Contacts SPST(NO) Closes with DC input voltage.
Zero voltage switching

MFG	MFG #	VDC Input	VAC Output	Load Amps	Stock #	Price Ea./C
GORD	GA8-2B2	3.5-15	120	2.5	5531	3.50
OPTO	MP240D4	3-32	240	4	29325	4.25

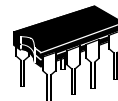


MISC. SOLID STATE RELAYS

Direct PC mounting
Contacts SPST(NO) Closes with DC input voltage.

MFG	MFG #	VDC Input	VAC Output	Load Amps	Dimensions "	Stock#	Price Ea./C
THET	OFA1202	4-8	120	1.5	.87x .5x.275	12708	1.75
EI&S	3897	5	125	1.0	1.125x.62 x.75	13047	0.75
THET	OFA2405D	4-8	240	3.0	.875 x.5 x.275	13282	Call
SIGM	230E-2-5	5	240	1.5	.875 x.25 x .5	20681	Call
SIGM	226RE-2-5A15		240	1.5 *	1.0x .655x.45	24229	Call
CRYD	DP2610	3.5	280	1.0	Dip pack	15664	5.50
THET	LCA110	2mA#	300	100mA	Dip pack	21189	1.40

* Note if heat sinked up to 7 Amps. # Input control current



TELECOMMUNICATIONS OPTICALLY COUPLED AC/DC DIP RELAY

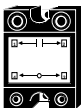
BIPOLAR Technology
DPST(NO) contacts.
8 pin dip

MFG SGS

Stock # 21263

LH1061 = to AT&T LH1061

Price Ea./M \$1.25



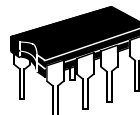
SOLID STATE RELAYS (HOCKEY PUCK STYLE)

Solid State relays offer zero crossover switching of High power ac loads Greater than 2500 vac of isolation.

Contacts SPST(NO) Closes with input voltage .

MFG	MFG #	Input Volts	VAC Output	Load Amps	Stock #	Price Ea./C
MOT	M120D05	3-32dc	120	5	12416	2.95
CRYD	D1D04627	3.5-32dc	100	7	21124	5.95
MAGN	W6110ASX-1	90-280ac	120	10	9219	Call
GORD	GB17410-05	5.0dc	240	10	12061	7.25
MAGN	W6210DSX-1	3-32	240	10	33461	4.50
MAGN	W6210ASX-1	90-280ac	240	10	9809	Call
CRYD	240D-25	3-32 dc	240	25	11550	11.95
OPTO	240D25-17	3-32 dc	240	25	14708	11.95
OPTO	240D25	3-32 dc	240	25	15491	11.95
CRYD	TD2425	3-32dc	240 *	25	17047	9.95
CRYD	CSE2425-4626	15-32dc	240	25	15652	12.95
OPTO	5140	3-32 dc	240	45	10823	14.95
CRYD	E240D45NS73	3-32vdc	240	45	35687	14.95
OPTO	480D10-12	3-32dc	480	10	15492	Call
ELEC	HSV4D25	3-32 dc	480	25	96280	12.95

* = Triac output



MULTIFUNCTION SOLID STATE CP CLARE TELECOM SWITCHES

- Two functions in one package.
(Hookswitch & Ring Detect/Loop Detect).
- 2500V Input/Output Isolation std.
- 3750V Input/Output Isolation.(E suffix)
- UL Recognized, CSA, VDE Compatible.
- BABT Certified
- 8 pin dip pkg.

Stock # 25976

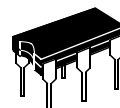
Stock # 16494

TS117

TS117E

Price Ea./M 1.45

Price Ea./M 1.65



PHOTOMOS 6 PIN DIP RELAY

Will Directly drive a power MOSFET.
Control load current with low level input signals.
1 Form A 350V 130mA

MFG AROMAT

Stock # 22379

P/N AQV210EH

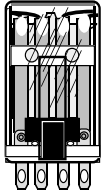
Price Ea./M Call

GUARDIAN RELAYS & SPECIALS

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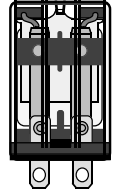
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(Outside NY)
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(Outside FL)
http://www.derf.com



TYPE 1315 SERIES
MULTI CONTACTS
4PDT 5 AMP CONTACTS
Size : just over 1 cubic inch

MFG #	Coil		Contacts		Term.	Stock #	Price Ea./M
	Volts	Form	Rating				
1315P-4C-12DC	12VDC	4PDT	5A		PC	35376	1.90
1315-4C-24DC	24VDC	4PDT	5A		Lug	35378	2.25
1315P-4C-24DC	24VDC	4PDT	5A		PC	35377	1.75
1315S-4C-24VDC * 24VDC	24VDC	4PDT	5A		Lug	5554	2.50

* Sealed version, Note : for equal MFG see page 8

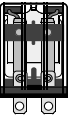


TYPE 1390 SERIES
GENERAL PURPOSE
POWER RELAY
EQUAL TO P & B K10 TYPE

MFG #	Coil		Contacts		Term.	Stock #	Price Ea./M
	Volts	Form	Rating				
1390PS-2C-12AC	12VAC	DPDT	13A		PC	5642	1.25
1390PS-2C-24AC	24VAC	DPDT	13A		PC	5654	1.68
1395P-2C-24DC	24VDC	DPDT	13A		PC	21349	1.50
1390P-2C-48AC	48VAC	DPDT	13A		PC	5680	1.00
1395P-2C-110DC	110VDC	DPDT	13A	Stud-PC		5679	1.50
1390P-2C-120AC	120VAC	DPDT	13A		PC	5160	1.75

Note : for other equal MFGs see page 8

SUPER SPECIAL



GENERAL PURPOSE
POWER RELAY
DPDT 10 AMP CONTACTS

Arc barrier equipped, High dielectric strength (2,000 VAC).

OMRON MFG #	Coil		Termination	Stock#	Price Ea./C
	Volts	Form			
LY2-VD-220VAC	220VAC		Solder lug	33905	1.45

NOTE: Other Mfg. = to LY2 see page 8 High Current GP K10 Type.

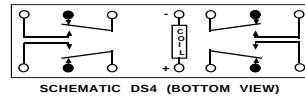


TYPE 1505S SERIES
MINIATURE DIP RELAY

MFG #	Coil		Contacts		Term.	Stock #	Price Ea./M
	Volts	Form	Rating				
1505S DC6V	6VDC	SPDT	1A		PC	9880	.28

Note : for equal MFG see page 7 MZ series

SPECIAL

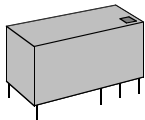


AROMAT 4PDT
DS4E-S-DC12V
12VDC 720 ohm Coil
SENSITIVE 200 mW COIL

Stock # 35847

Price Ea./M 2.95

SPECIAL

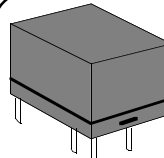


AROMAT DPDT
DS2E-M-DC12V
12VDC 360 ohm Coil
STANDARD 400 mW COIL

Stock # 35856

Price Ea./M 1.20

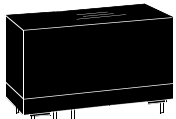
SPECIAL



ITT / TAKAMISAWA TYPE LZ RELAY
SPST (N.O.) 10 Amps
12 VDC Coil
Direct PCMount. Size 7/8" x 11/16" x 5/8"

MFG	MFG #	Coil	Contact form	Contact Rating	Price Ea./M
TAKA	LZ-12VM-C	12VDC	SPST	10A	.85

SPECIAL

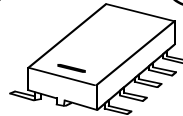


SLIM 10 AMP STACKABLE
PC MOUNT POWER RELAY

Switches up to 10 Amps with low coil power,
Slim package for tandem mounting.
Size : L = 1.126", H = 1.025", W = .504"

MFG	MFG #	Volts	Form	Rating	Sealed	Stock #	Price Ea./M
P&B	RKS-1DG-24V	24VDC	SPST	10A	Yes	34647	.65

SPECIAL

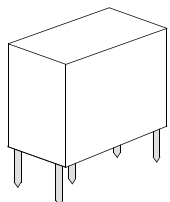


MINIATURE SURFACE MOUNT
NEC EB2-5NU RELAY
DPDT CONTACTS, 5VDC Coil

Contacts rating 1 Amp , Nominal coil power 140 mW,
Low magnetic interference.

Stock # 29653

Price Ea./M .85



TYPE 1345 SERIES
SPDT CONTACTS
LOW COST
Size : just over 1 cubic inch

MFG #	Coil		Contacts		Term.	Stock #	Price Ea./M
	Volts	Form	Rating				
1345-1C-5DC	5VDC	SPDT	10A		PC	35387	1.10
1345-1C-24DC	24VDC	SPDT	5A		PC	35381	1.10
1345-13-12DC	12VDC	SPDT	5A		PC	35416	1.10
1345-1C-18DC	18VDC	SPDT	10A		PC	35240	1.10
1345-1C-24DC	24VDC	SPDT	2A		PC	35410	1.10

SLIM-LINE POWER RELAYS & FLAT PACK RELAYS

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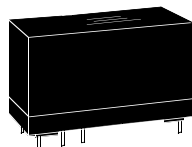
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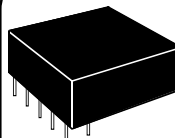
SLIM 16 AMP STACKABLE PC MOUNT POWER RELAYS

Switches up to 16 Amps with low coil power,
Slim package for tandem mounting.

Size : L = 1.126", H = 1.025", W = .504"

MFG*	MFG #	Coil	Contacts	Contact			Price
		Volts	Form	Rating	Sealed	Stock #	
FJTS	FBR613ND005	5VDC	SPST	10A	Yes	13464	1.00
OMRN	G2R-1117P-V-H-U	5VDC	SPST	10A	No	29650	.75
AROM	JW1AFEN-DC5V	5VDC	SPST	10A	Yes	31748	Call
FJTS	FBR613DOO5-K	5VDC	SPST	16A	No	20949	1.20
OMRN	G2R-2-DC5	5VDC	DPDT	5A	Semi	33153	1.45
FJTS	FBR613ND006/CSA6VDC	5VDC	SPST	10A	Yes	7491	1.00
HANK	HRCR311DC006K	6VDC	SPDT	10A	No	17290	Call
HANK	HRCR313DC006K	6VDC	SPST	16A	No	17293	Call
FEME	MXPA1004405	6VDC	SPST	5A	No	15140	.75
MAGN	76URCPCX-64	6VDC	SPDT	6A	No	9408	1.00
ITT	HD1-0603	6VDC	SPDT	10A	Yes	15059	1.15
FEME	MXPA1004405	6VDC	SPST	5A	Yes	15140	.90
FEME	MZHA1004210	6VDC	SPST	10A	Yes	15241	.95
AROM	JW2EN-DC 6V	6VDC	DPDT	5A	Yes	30510	1.25
OMRN	G2R-1-DC12V	12VDC	SPDT	10A	Semi	33558	1.20
SCHR	RP 310012	12VDC	SPDT	16A	No	34632	.95
FEME	MZPA0029110	12VAC	DPDT	10A	No	15240	1.25
FJTS	FBR613D012-R	12VDC	SPST	10A	No	20944	.65
FJTS	FBR623D012	12VDC	DPST	5A	No	17891	.75
FEME	MZPA0204505	12VDC	SPST (NC)	5A	No	15225	.50
FJTS	FBR623D012	12VDC	DPST	5A	No	17891	.79
FEME	MZHA0204505	12VDC	DPST (NC)	5A	Yes	15143	.95
FEME	MZPA0204510	12VDC	DPST (NC)	10A	Yes	15229	1.00
FEME	MZPA0204516	12VDC	DPST (NC)	16A	No	15230	1.10
FEME	MZHA0204510	12VDC	DPST (NC)	10A	No	15234	1.00
AROM	JW2EN-DC12V	12VDC	DPDT	5A	Yes	27831	Call
GRDN	1665-2C-DC12V	12VDC	DPDT	5A	Yes	34012	1.00
FEME	MZPA0204510	12VDC	DPST (NC)	10A	Yes	15229	.75
OMRN	G2L-113P-V-US	24VDC	SPDT	10A	No	35330	.75
AROM	JR1-DC24V	24VDC	SPDT	10A	No	35285	Call
P&B	RKS-1DG-24	24VDC	SPST	10A	Yes	34647	.65
P&B	RKS-1DW-24	24VDC	SPST	16A	Yes	34640	.90
TAKA	VS24M	24VDC	SPST	10A	No	18234	1.10
HANK	HRCR311DC024K	24VDC	SPDT	10A	No	17289	1.15
MAGN	76URCPCX-157	24VDC	SPDT	16A	No	10333	1.15
FEME	MZHA1004810	24VDC	SPST	10A	Yes	15130	.50
FEME	MZHA1004816	24VDC	SPST	16A	Yes	15233	1.10
FEME	MZPB0014905	24VDC	SPDT	5A	Yes	15238	.95
FEME	MZPA0014910	24VDC	SPDT	10A	Yes	15243	1.00
FEME	MZPA2004805	24VDC	DPST	5A	No	15236	.75
FEME	MZPA2004710	24VDC	DPST	10A	No	15220	.75
FEME	MZHA0204805	24VDC	DPST (NC)	5A	Yes	15131	.50
FEME	MZPA0204805	24VDC	DPST (NC)	5A	No	15224	.50
FEME	MZPA0204810	24VDC	DPST (NC)	10A	No	15226	.50
FEME	MZHA0204810	24VDC	DPST (NC)	10A	Yes	15237	.50
OMRN	G2R-2-DC24	24VDC	DPDT	5A	Semi	34177	1.40
FJTS	FBR621ND024	24VDC	DPDT	6A	Yes	12784	Call
FJTS	FBR621ND024	24VDC	DPDT	5A	Yes	12599	1.35
FEME	MZHA0024805	24VDC	DPDT	5A	Yes	15221	1.25
ITT	HD1-2403	24VDC	SPDT	10A	No	15057	1.00
FJTS	FBR651D024	24VDC	SPDT	10A	Yes	15046	1.00
TAKA	VS48SMBU-NR	48VDC	SPST	15A	Yes	35220	Call
OMRN	G2R-1-E-110VDC	110VDC	SPDT	16A	Semi	33181	Call
OMRN	G2R-117P-V-US-110VDC	110VDC	SPDT	10A	No	1359	1.45
OMRN	G2R-117P-V-US	120VAC	SPDT	10A	No	33185	Call

(NC) = norm. closed

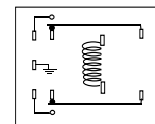


FLAT PACK RELAYS 2 AMP CONTACTS

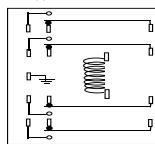
VERY LOW OPERATING POWER
LOW PROFILE, PC mount
LONG LIFE - HIGH RELIABILITY

Size: DPDT = 1.189"(30.2mm) x W= .787" (20.0mm) x
H= .325" (10.8mm)

Size: 4PDT = 1.189"(30.2mm) x W= .969" (24.6mm) x
H= .325" (10.8mm)



FOOTPRINT NF2EB DPDT



FOOTPRINT NF4EB 4PDT

MFG	MFG #	Coil Volts	Contacts	Stock #	Price Ea./M
AROM	NF2EB-5V	5VDC	DPDT	28092	Call
NEC	MR24-4R15	5VDC	4PDT	16117	Call
AROM	NF4E-5V-C	5VDC	4PDT	25581	Call
OMRN	LZNQ4-US-5VDC	5VDC	4PDT	35347	.95
NEC	MR24-5D4	5 VDC	4PDT *	4411	1.00
NEC	MR24-L5S	5 VDC	4PDT +	8218	1.95
FJTS	FBR464D002/02CT	6VDC	DPDT	10938	Call
AZ	AZ7-2D-6DE	6 VDC	DPDT *	5095	Call
AZ	AZ7-4C-6DE	6 VDC	4PDT	7791	1.70
AZ	AZ7-2C-12DE	12 VDC	DPDT	15563	1.75
AROM	NF2EB-12V	12VDC	DPDT	35311	2.90
SIEM	V23012-A0105-B001	12 VDC	DPDT	11768	1.80
FJTS	FBR464ND012/02C	12VDC	DPDT	7499	Call
FJTS	FBR464D012/02CT	12VDC	DPDT	10935	Call
STDN	403XBXH-12VDC	12VDC	DPDT	18630	Call
OMRN	LZN2-UA-DC12V	12VDC	DPDT	25496	2.50
OMRN	LZNQ2M-US-DC12V	12VDC	DPDT	33167	2.50
OMRN	LZNQ2USDC12V	12VDC	DPDT	6100	Call
FJTS	FBR464D012/04CT	12VDC	4PDT	10933	Call
OMRN	LZN2-UA-007034	12 VDC	DPDT	6124	1.95
AROM	NF2E-24V	24VDC	DPDT	35310	Call
TAIK	RFT-1227-K	24VDC	DPDT	17281	Call
FJTS	FBR464D024/02CT	24VDC	DPDT	7488	Call
FJTS	FBE464ND024/02C	24VDC	DPDT	10934	Call
NEC	MR22-24E	24 VDC	DPDT	8236	1.75
OMRN	LZN2-US-DC24V	24VDC	DPDT	23508	1.75
FJTS	FBR464ND024/04C	24VDC	4PDT	7344	Call
MEIS	L1-24H	24VDC	4PDT	23191	1.48
OMRN	LZNQ2-US-DC48	48VDC	DPDT	22183	Call
OMRN	LZN2-2-UA-107076	48VDC	DPDT	35419	.95
AROM	NF2EB-48V	48VDC	DPDT	23330	Call
AROM	NF2-48V	48VDC	DPDT	23502	1.45
AZ	AZ7-2D-48V	48 VDC	DPDT *	13751	1.80
NEC	MR22-48-S2	48 VDC	DPDT *	13749	1.80
OMRN	LZNQ2MUADC24	48VDC	DPDT	20702	Call
P&B	T60S17D111-48-1	48VDC	4PDT	35326	2.10
FJTS	FBR464ND048/-20	48VDC	DPDT	10939	Call
AMZT	AZ7-4C-48DE	48VDC	4PDT	21322	Call
OMRN	LZN4-UA-107075	48VDC	4PDT	35388	Call
ALCO	HJ4C-48	48VDC	4PDT	23505	1.90
TAIK	RFT-116-DC24	24VDC	6PDT	17269	.75
TAIK	RFT-116E-DC24	24VDC	6PDT	17286	.75
TAIK	RFT-116E-DC48	48VDC	6PDT	17280	.75

* = FORM D + = LATCHING

MOVISTAR VARISTORS

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MOVISTAR Model #	International Number	Size mm	Price Ea./M		MOVISTAR Model #	International Number	Size mm	Price Ea./M		MOVISTAR Model #	International Number	Size mm	Price Ea./M
18ZA05	180KD05	5	.13		120ZA05	121KD05	5	.11		390ZA05	391KD05	5	.11
18ZA1	180KD07	7	.14		120ZA1	121KD07	7	.13		250LA4	391KD07	7	.12
18ZA2	180KD10	10	.15		120ZA4	121KD10	10	.145		250LA10	391KD10	10	.14
18ZA3	180KD14	14	.19		120ZA6	121KD14	14	.175		250LA20A	391KD14	14	.17
18ZA40	180KD20	20	.325		120ZA20	121KD20	20	.29		250LA40A	391KD20	20	.26
22ZA05	220KD05	5	.132		150ZA05	151KD05	5	.10		430ZA05	431KD05	5	.11
22ZA1	220KD07	7	.135		150ZA1	151KD07	7	9.12		275LA4	431KD07	7	.125
22ZA2	220KD10	10	.156		150ZA4	151KD10	10	.13		275LA10	431KD10	10	.14
22ZA3	220KD14	14	.185		150ZA10	151KD14	14	.17		275LA20A	431KD14	14	.175
22ZA50	220KD20	20	.31		150ZA20	151KD20	20	.285		275LA40A	431KD20	20	.30
27ZA05	270KD05	5	.12		180ZA05	181KD05	5	.115		470ZA05	471KD05	5	.11
27ZA1	270KD07	7	.14		180ZA1	181KD07	7	.11		300LA4	471KD07	7	.12
27ZA2	270KD10	10	.15		180ZA5	181KD10	10	.144		300LA10	471KD10	10	.145
27ZA4	270KD14	14	.19		180ZA10	181KD14	14	.16		300LA20A	471KD14	14	.17
27ZA60	270KD20	20	.32		180ZA20	181KD20	20	.27		300LA40A	471KD20	20	.30
33ZA05	330KD05	5	.125		200ZA05	201KD05	5	.11		350LA4	561KD07	7	.145
33ZA1	330KD07	7	.135		130LA2	201KD07	7	.115		350LA10	561KD10	10	.20
33ZA2	330KD10	10	.156		130LA5	201KD10	10	.14		350LA20A	561KD14	14	.28
33ZA5	330KD14	14	.187		130LA10A	201KD14	14	.16		350LA40A	561KD20	20	.45
33ZA70	330KD20	20	.32		130LA20A	201KD20	20	.24		385LA4	621KD07	7	.145
39ZA05	390KD05	5	.12		220ZA05	221KD05	5	.11		385LA10	621KD10	10	.21
39ZA1	390KD07	7	.125		140LA2	221KD07	7	.115		385LA20A	621KD14	14	.29
39ZA3	390KD10	10	.15		140LA5	221KD10	10	.15		385LA40A	621KD20	20	.50
39ZA6	390KD14	14	.185		140LA10A	221KD14	14	.18		420LA4	681KD07	7	.145
39ZA80	390KD20	20	.31		140LA20A	221KD20	20	.27		420LA10	681KD10	10	.195
47ZA05	470KD05	5	.12		240ZA05	241KD05	5	.105		420LA20A	681KD14	14	.30
47ZA1	470KD07	7	.13		150LA2	241KD07	7	.115		420LA40A	681KD20	20	.52
47ZA3	470KD10	10	.16		150LA2	241KD10	10	.14		460LA10	751KD10	10	.21
47ZA7	470KD14	14	.28		150LA10A	241KD14	14	.16		460LA20A	751KD14	14	.31
47ZA20	470KD20	20	.315		150LA20A	241KD20	20	.24		460LA40A	751KD20	20	.56
56ZA05	560KD05	5	.105		270ZA05	271KD05	5	.11		480LA10	781KD10	10	.22
56ZA2	560KD07	7	.135		175LA2	271KD07	7	.125		480LA40A	781KD14	14	.28
56ZA3	560KD10	10	.156		175LA5	271KD10	10	.145		480LA80A	781KD20	20	.55
56ZA8	560KD14	14	.185		175LA10A	271KD14	14	.17		510LA10	821KD10	10	.21
56ZA20	560KD20	20	.32		175LA20A	271KD20	20	.27		510LA40A	821KD14	14	.30
68ZA05	680KD05	5	.115		300ZA05	301KD05	5	.12		510LA80A	821KD20	20	.56
68ZA2	680KD07	7	.125		200LA4	301KD07	7	.12		CAUTION: Surge currents and energy levels much greater than maximum ratings, may cause failure by package rupture and or expulsion of material. If not fused the Varistor should be physically shielded.			
68ZA3	680KD10	10	.145		200LA10	301KD10	10	.15					
68ZA10	680KD14	14	.185		200LA20A	301KD14	14	.18					
68ZA20	680KD20	20	.325		200LA40A	301KD20	20	.29					
82ZA05	820KD05	5	.112		330ZA05	331KD05	5	.115		14 MILLION! VARISTORS IN STOCK. CALL NOW 1-800-431-2912			
82ZA2	820KD07	7	.12		210LA4	331KD07	7	.13					
82ZA4	820KD10	10	.144		210LA10	331KD10	10	.145		HARRIS, SIEMENS, PANASONIC, THOMSON, CKE, GSI, MARCON, TOSHIBA, NEC, PHILIPS, ISKRA, STETRON, SANKEN			
82ZA12	820KD14	14	.18		210LA20A	331KD14	14	.175					
82ZA20	820KD20	20	.28		210LA40A	331KD20	20	.29					
100ZA05	101KD05	5	.112		360ZA05	361KD05	5	.115					
100ZA3	101KD07	7	.125		230LA4	361KD07	7	.135					
100ZA4	101KD10	10	.144		230LA10	361KD10	10	.14					
100ZA15	101KD14	14	.16		230LA20A	361KD14	14	.18					
100ZA20	101KD20	20	.27		230LA40A	361KD20	20	.27					

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(Outside FL)

OMRON SPECIALS

Fig	Part #	Coil	Contacts	Rating	Term	Stock #	Qty.	Price E/C/M
5	MHS4ZPG-0	12VDC	4PDT		PC	35593	497	.75/C
10	LC1N-10-100-US	24VDC	SPDT	10A	PC	35452	3,948	.40/M
8	G2K12VDC	12VDC	SPDT		PC	35448	613	.50/C
5	MHS4ZP-01-UA	12VDC	4PDT		PC	35561	57	.75/E
6	G2L-113P-V-US	24VDC	SPDT	10A	PC	35330	1,197	.75/C
3	LY4-UA-006008	12VDC	4PDT	10A	PC	35366	286	1.40/C
2	LY2-0-12VDC	12VDC	DPDT	10A	PC	35552	165	1.45/E
2	LY2F-US-24DC	24VDC	DPDT	12A	Lug	35544	194	.90/E
2	LY2F-120VAC	120VAC	DPDT	10A	Lug/Ears	35556	50	.90/E
4	MJ3P-UA-DC24	24VDC	3PDT	10A	Lug	35672	67	1.50/E
2	LY4-12DC	12VDC	4PDT	10A	PC	35537	48	1.50/E
7	LZNQ4-US-5VDC	5VDC	4PDT	1A	PC	35347	8,808	.75/M
3	MY4-UA-006011	120VAC	4PDT	3A	Lug	35550	214	2.00/E

FUJITSU SPECIALS

Fig	Part #	Coil	Contacts	Rating	Term	Stock #	Qty.	Price E/C/M
1	FRL256A120/02CS	120VAC	DPDT	10A	Octal	35580	215	2.75/C
3	FRL263D012/04CL	12VDC	4PDT	3A	Lug	35587	100	2.00/E
3	FRL264D110/04CV-8	110VDC	4PDT(push)	5A	PC	35585	200	1.60/C

AROMAT SPECIALS

Fig	Part #	Coil	Contacts	Rating	Term	Stock #	Qty.	Price E/C/M
3	HC2-P-AC115V	115VAC	DPDT	7A	PC	35425	598	1.20/C
5	K4-12V-9	12VDC	4PDT	2A	Lug	35313	358	1.90/C
8	JY1J-DC12V	12VDC	SPDT	10A	PC	35430	250	.70/C
5	K6ET-12V-9	12VDC	6PDT	2A	PC	35437	40	1.70/E
9	JC1a-TM-DC12V	12VDC	SPST(NO)	10A	Lug/Ears	35431	59	.75/E

MISC. MFG SPECIALS

Fig	Part #	Coil	Contacts	Rating	Term	Stock #	Qty.	Price E/C/M
4	222D10-450B	24VDC	DPDT	10A	Lug/Ears	35581	75	1.00/E
4	SKAT-1-2C	120VAC	DPDT	13A	1/4 Lug	35455	1,394	2.00/C
4	RM 205 024	24VDC	DPDT	16A	1/4 Lug/Ears	35337	199	1.50/E
4	RM703615	115VAC	DPDT	16A	Lug/Ears	35338	200	3.50/E
3	MAT 4B-AR-6VDC	6VDC	4PDT	3A	PC	35218	218	.75/E
2	HL2-AC100V	100VAC	DPDT	10A	Lug	35647	80	.90/E
4	W389ACX-8	24VAC	DPDT	13A	1/4 Lug/Ears	34967	279	1.75/E
3	CP CLARE	110VDC	4PDT	3A	Lug	35588	148	1.50/E



Fig 1

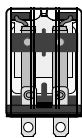


Fig 2

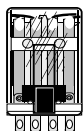


Fig 3

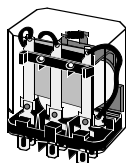


Fig 4

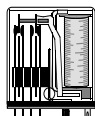


Fig 5

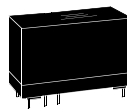


Fig 6

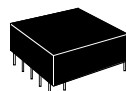


Fig 7



Fig 8



Fig 9



Fig 10