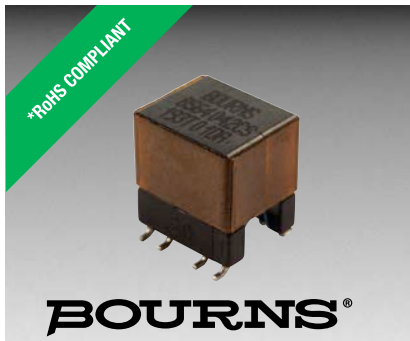




Features

- 4.5 to 60 V input voltage
- 6 to 28 V output voltage
- Covered by reference designs with Analog Device's Model ADP1031 Chipset
- 2.2 kV isolation voltage
- Isolation type: Basic creepage and clearance >3 mm
- RoHS compliant*

BS64042CS - Flyback Transformer

Electrical Specifications @ 25 °C

Inductance (@250 KHz, 1.0 V)	
1-4	270 μ H $\pm$ 20 %
DC Bias (@250 KHz, 1.0 V, DC 0.4 A)	
1-4	LOA * 90 % min.
Leakage Inductance (@250 KHz, 1.0 V with 8-5 Short)	
1-4	8.5 μ H max.
DCR	
1-4	1.40 ohms max.
8-5	2.85 ohms max.
Hi-Pot	
PRI-SEC.....	2.2k Vac 2.0 mA, 60 sec.
PRI-CORE....	0.6k Vac 2.0 mA, 60 sec.
SEC-CORE....	0.6k Vac 2.0 mA, 60 sec.
Turns Ratio ($\pm$ 2 %) & Polarity @ 20 kHz, 1 V	
Input Terminal (1-4)	
(1-4): (8-5).....	1:1

Environmental Specifications

Operating Temperature	
.....	-40 °C to +125 °C (including temperature rise)
Storage Temperature	
.....	-40 °C to +85 °C
Moisture Sensitivity Level	
.....	1
ESD Classification (HBM)	
.....	N/A

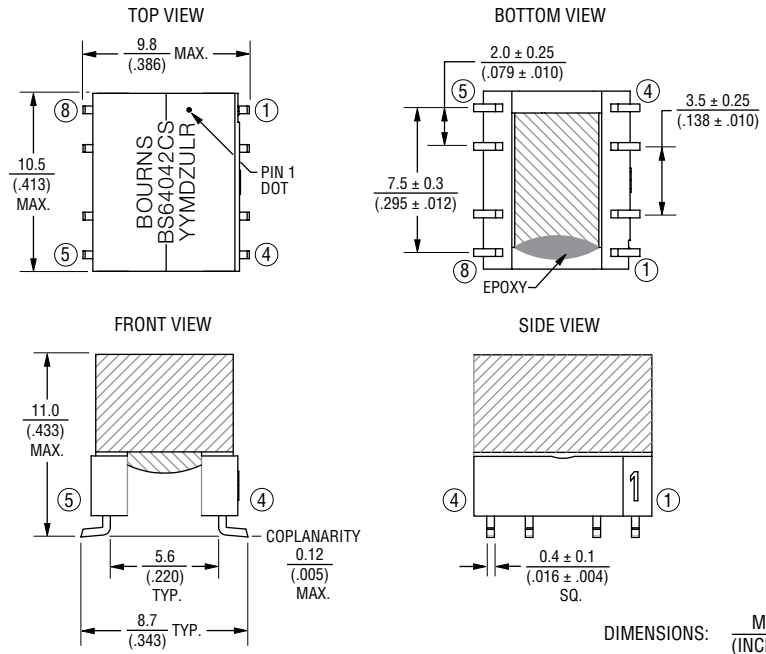
Packaging Specifications

Packaging	350 pcs./13-inch reel
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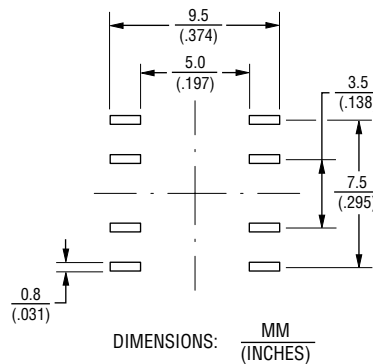
How To Order

Model **BS64042CS**

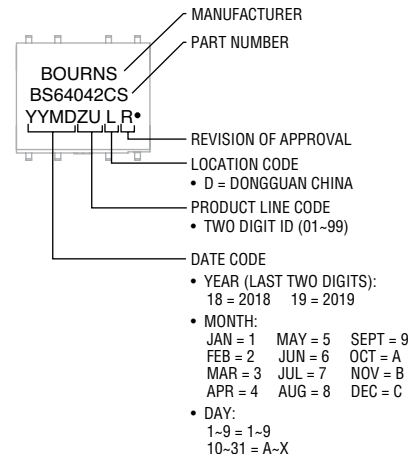
Product Dimensions



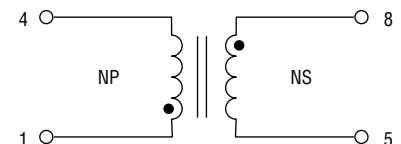
Recommended Layout



Typical Part Marking



Electrical Schematic



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WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.

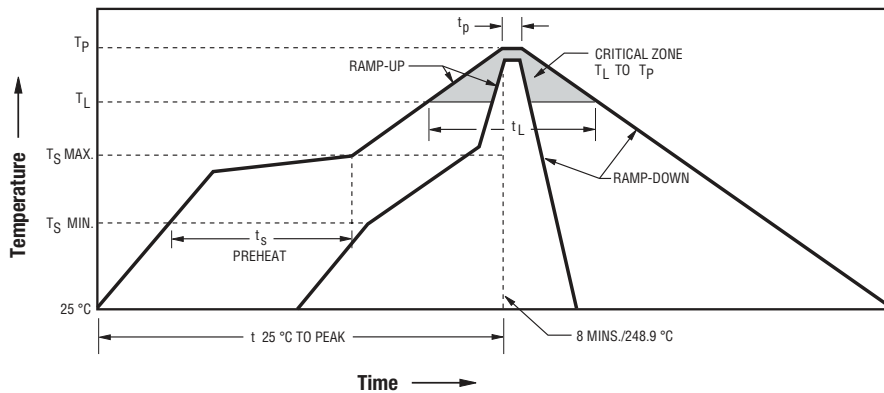
Users should verify actual device performance in their specific applications.

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BS64042CS - Flyback Transformer

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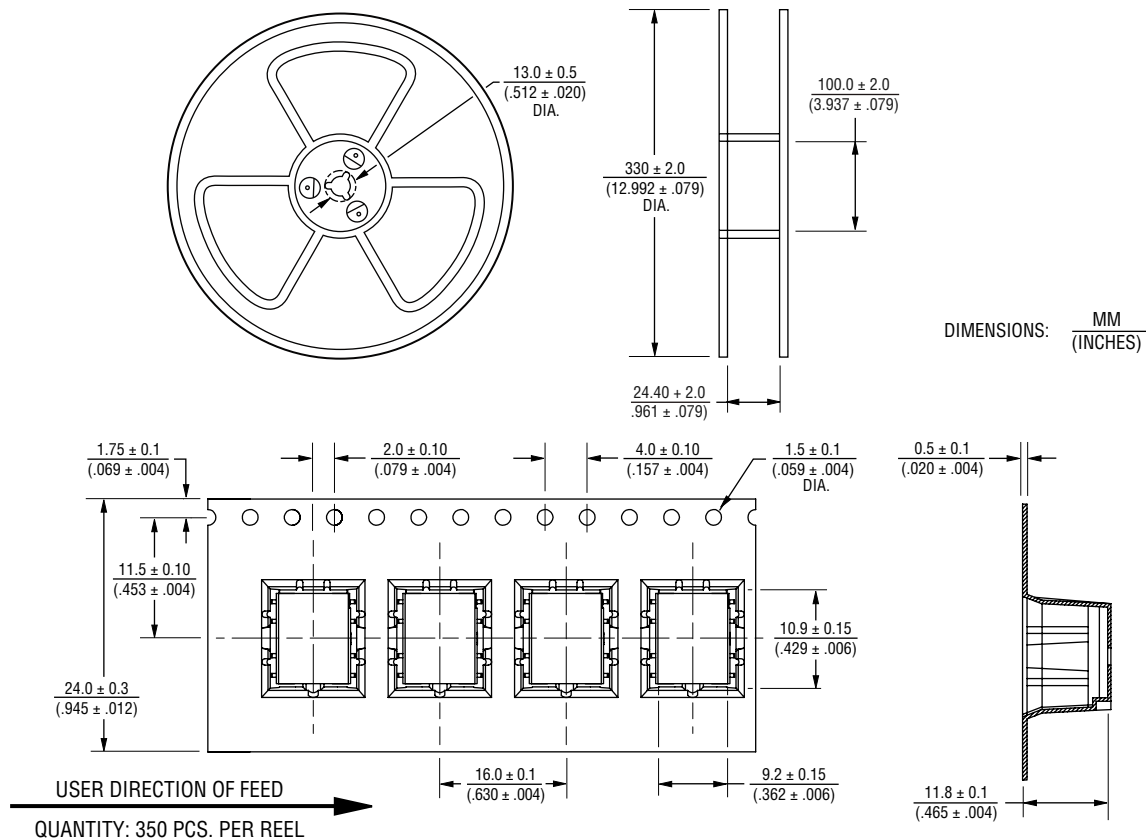
Soldering Profile



- Ramp-up rate = 3 °C/sec. max.
- Ramp-down rate = 6 °C/sec. max.

- T_L = 217 °C
- t_L = 60-150 sec.
- T_p = 245 ± 5 °C
- Time within 5 °C of actual Peak Temp (t_p) = 20-40 sec.
- T_S min = 150 °C
- T_S max = 200 °C
- T_S min to T_S max = 60-180 sec., 25 °C to Peak Temperature = 6 min. max.

Packaging Specifications



REV. D 05/19

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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