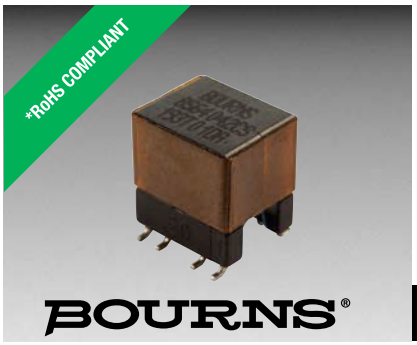


Features

- 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 µH ±20 %
DC Bias
(@250 KHz, 1.0 V, DC 0.4 A)
1-4 ..... L0A * 90 % min.
Leakage Inductance
(@250 KHz, 1.0 V with 8-5 Short)
1-4 ..... 8.5 µH 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 (±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

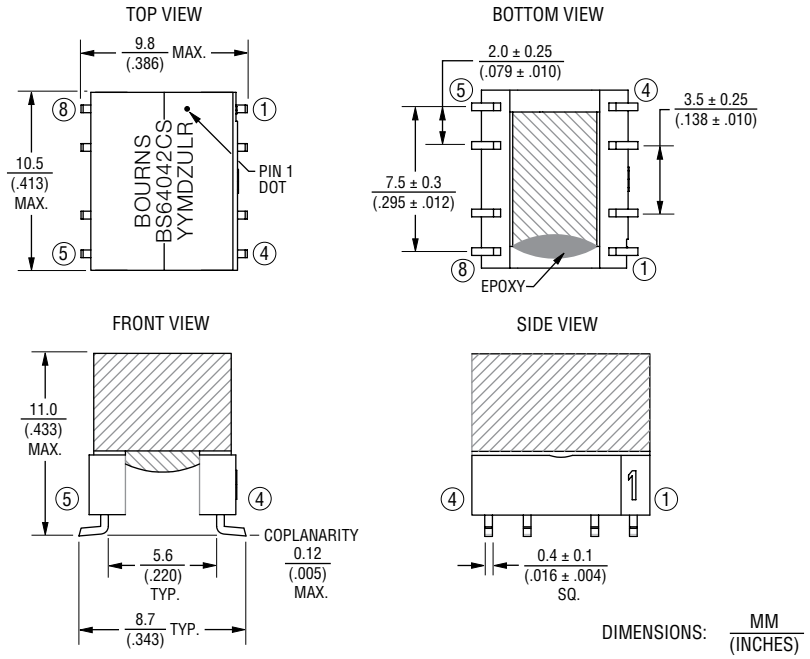
Packaging Specifications

Packaging ..... 350 pcs./13-inch reel

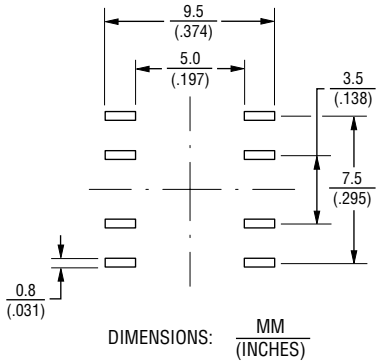
How To Order

BS64042CS
Model

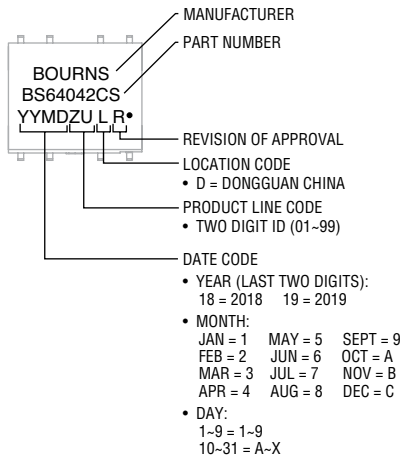
Product Dimensions



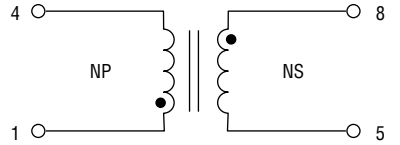
Recommended Layout



Typical Part Marking



Electrical Schematic



BOURNS®

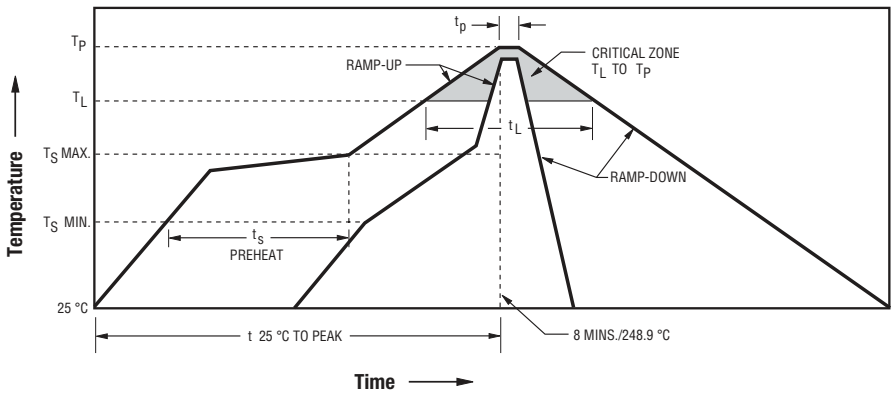
Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com

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.
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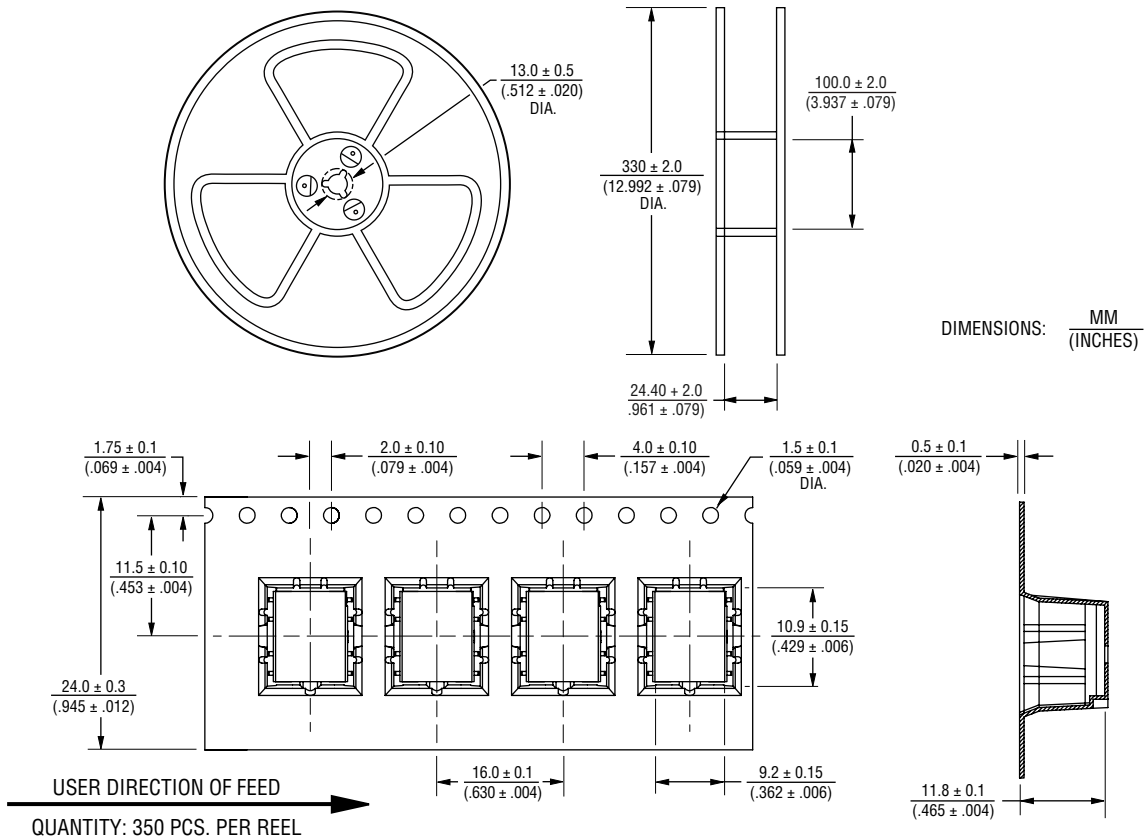
Soldering Profile



- 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



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Users should verify actual device performance in their specific applications.
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