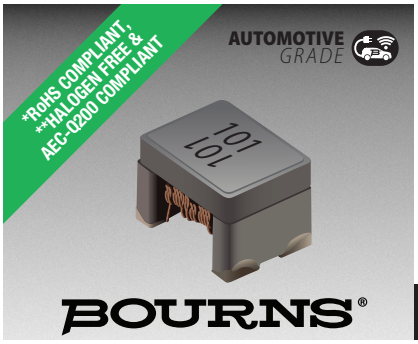


Features

- Shielded construction – low radiation
- Meets Open Alliance: IEEE 1000Base-T1 requirements
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

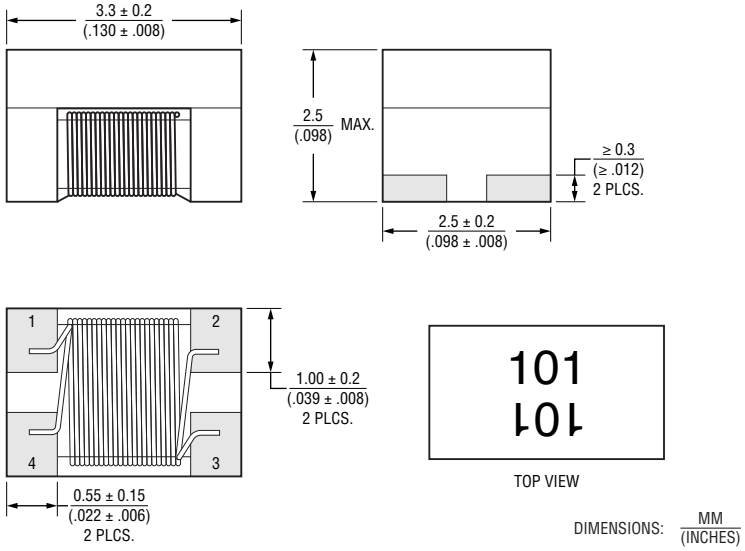
- Noise suppression in 1000Base-T1 Ethernet, consumer, industrial and other electronics

Model SRF3225TABG – Common Mode Chip Inductor

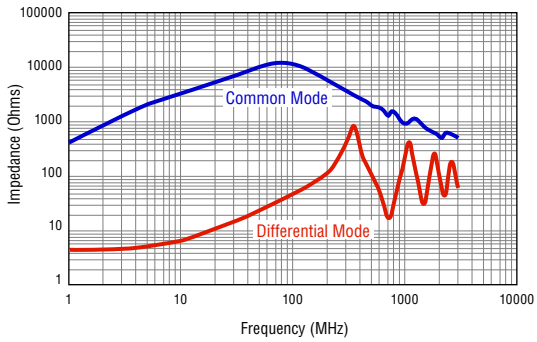
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Leakage Inductance (µH) Typ. @ 100 kHz / 0.1 V	DCR (Ω) Max.	IDC (A) Max.	Cp Capacitance (pF) Typ.	Common Mode Impedance (Ω) @ 10 MHz	
	L (µH)	Tol. (%)					Typ.	Min.
SRF3225TABG-101Y	100 Typ.	80 +50/-30	0.3	3.0	0.1	10	3000	2000

Product Dimensions



Typical Impedance vs. Frequency Curves



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

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

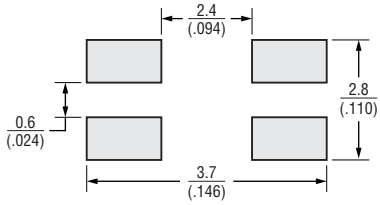
General Specifications

Rated Voltage ..... 80 VDC
Insulation Resistance ..... 10 MΩ (min.)
Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
.....-40 °C to +125 °C
Temperature Rise ..... 40 °C at rated IDC

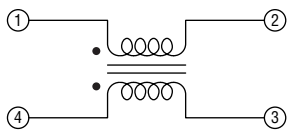
Materials

Core ..... Ferrite
Wire .....Enameled copper
Terminal Finish ..... Sn
Packaging..... 2000 pcs. per 7-inch reel

Recommended Layout



Electrical Schematic

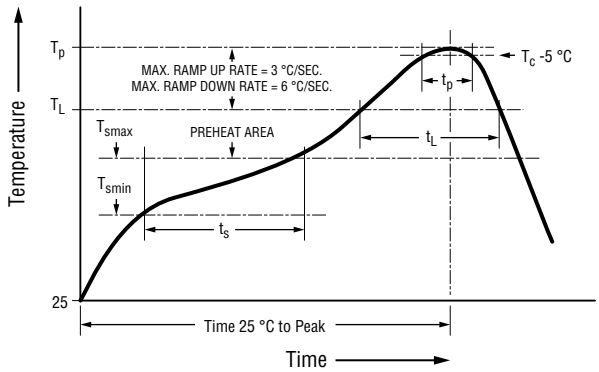


How to Order

SRF3225TABG - 101 Y

Model
Value Code
Tolerance

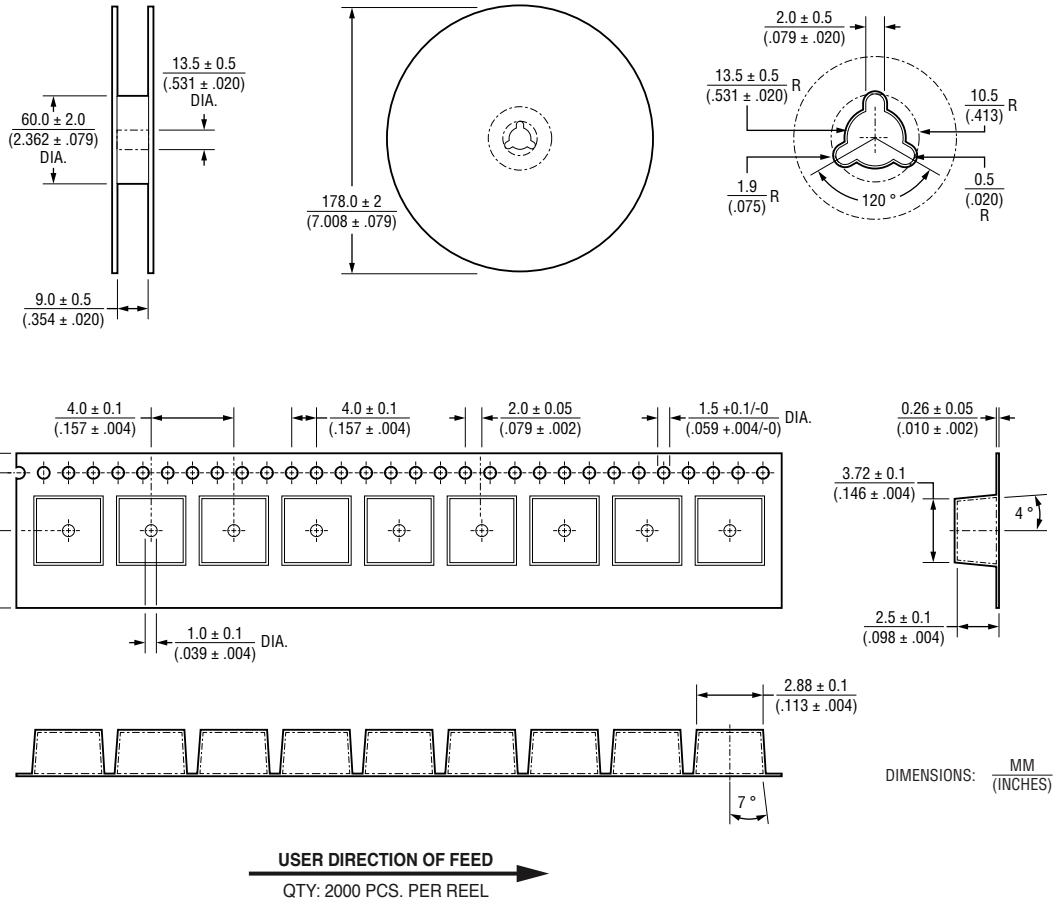
Soldering Profile



REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	 150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Peak package body temperature (T_p)	250 °C
Time (t_p) at T_c - 5 °C (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Packaging Specifications



REV. 04/24

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