

Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 7 A
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

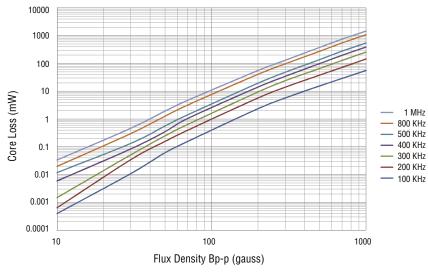
SRU8028 Series - Shielded SMD Power Inductors

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Electrical Specifications Inductance 100 KHz Test SRF Irms Isat RDC **K-Bourns Tol. Q Freq. Max. Tvp. Tvp. Part No. (µH) Ref. (MHz) (MHz) (mΩ) Factor % (A) (A) SRU8028-1R0Y 1.0 ± 30 389 12 7.96 66.0 10.1 7.00 5.50 SRU8028-2R5Y 2.5 ± 30 15 7.96 65.0 4.50 4.20 251 13.6 SRU8028-3R3Y 3.3 12 7.96 60.0 17.5 3.60 3.50 222 ± 30 SRU8028-4R7Y 4.7 ± 30 15 7.96 50.0 20.0 3.70 3.20 198 SRU8028-6R8Y 6.8 ± 30 13 7.96 40.0 34.0 2.80 2.50 164 143 SRU8028-8R2Y 8.2 ± 30 17 7.96 37.0 54.0 2.60 2.30 SRU8028-100Y 10.0 ± 30 45.0 22 2.52 35.0 2.60 2.20 130 SRU8028-120Y 12.0 ± 30 21 2.52 30.0 76.0 2.20 2.00 121 SRU8028-150Y 15.0 ± 30 20 2.52 25.0 66.0 2.00 1.70 108 SRU8028-220Y 22.0 ± 30 22 2.52 20.0 106 1.60 1.50 88 SRU8028-330Y 33.0 ±30 20 2.52 15.0 147 1.30 1.10 74 SRU8028-470Y 47.0 +3014 2.52 12.0 177 1.20 1.00 62 SRU8028-680Y 68.0 2.52 9.0 317 0.85 0.80 50 ±30 23 SRU8028-101Y 100.0 ±30 35 0.796 8.0 390 0.75 0.70 41

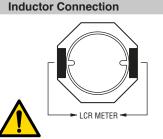
**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μ H) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



Electrical Schematic

* 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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/leal/disclaimer.pdf



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

General Specifications

Test Voltage1 V Reflow Soldering .. 230 °C, 50 sec. max. Operating Temperature

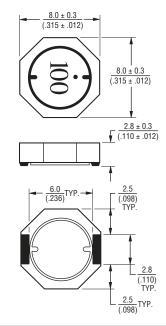
-40 °C to +125 °C (Temperature rise included) Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

.....Ž60 °C for 10 sec. Rated Current..Ind. drop 35 % typ. at Isat Temperature Rise

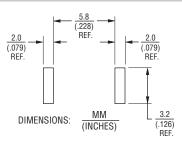
Materials

Core	Ferrite DR and RI core
Wire	Enameled copper
Terminal	Ag/Ni/Sn
Packaging	1500 pcs. per reel

Product Dimensions



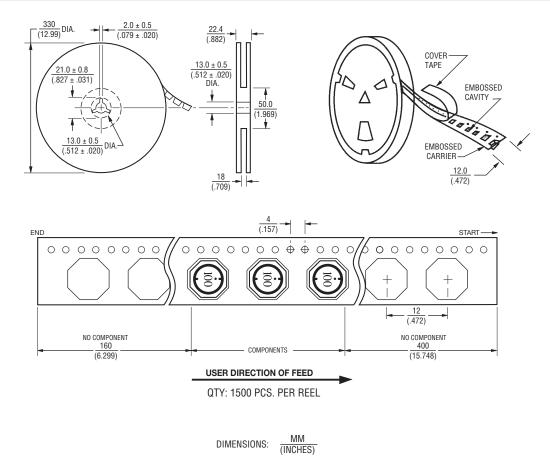
Recommended Layout



SRU8028 Series - Shielded SMD Power Inductors

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Packaging Specifications



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