

Features

- Shielded construction
- Unit height of 5.6 mm
- Inductance range: 0.3 to 7.2 μH

SRP1205 Series - Shielded Power Inductors

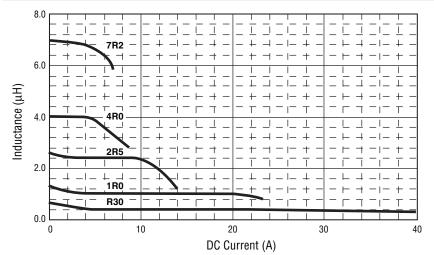
- Current up to 18 A
- RoHS compliant*



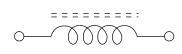
Electrical Specifications

Bourns Part No.	Initial Inductance L0 (μΗ)	Inductance at Flat Point L1 (μΗ)	Flat Point Ref. (A)	SRF typ. (MHz)	l rms (A)	l sat (A)	DCR (mΩ) Max.
SRP1205-R30Y	0.54 ±25 %	0.30 ±25 %	5.00	160	18.0	35.0	1.8
SRP1205-R60Y	0.85 ±25 %	0.60 ±25 %	5.00	95	16.0	27.0	2.5
SRP1205-1R0Y	1.25 ±25 %	1.00 ±25 %	5.00	75	14.0	22.0	3.4
SRP1205-1R8Y	2.00 ±25 %	1.80 ±25 %	2.00	55	13.0	16.0	3.4
SRP1205-2R5Y	2.70 ±25 %	2.50 ±25 %	2.00	40	11.5	12.0	3.4
SRP1205-3R3Y	3.50 ±25 %	3.30 ±25 %	2.00	40	11.0	11.8	5.4
SRP1205-4R0Y	4.20 ±25 %	4.00 ±25 %	3.00	35	10.5	8.3	5.4
SRP1205-5R6Y	5.80 ±25 %	5.60 ±25 %	2.00	30	8.5	8.0	11.4
SRP1205-7R2Y	7.40 ±25 %	7.20 ±25 %	2.00	30	8.3	7.5	13.5

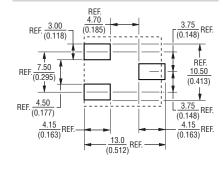
L vs I Charts



Electrical Schematic



Recommended Layout



General Specifications

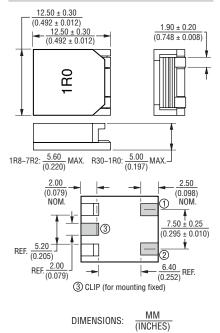
Test Voltage1 V					
Test Frequency 100 KHz					
Reflow Soldering 230 °C; 50 sec. max					
Operating Temperature					
40 °C to +125 °C					
(Temperature rise included)					
Storage Temperature					
40 °C to +125 °C					
Resistance to Soldering Heat					
+260 °C for 10 sec.					
Moisture Sensitivity Level1					
ESD Classification (HBM)N/A					
1 Circuit design component PCB trace					

¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core	Ferrite ER
Wire	Enameled copper
Terminal	Cu/Ni/Sn
Rated Current Ir	nd. drops 20 % at Isat
Temperature Rise	40 °C at rated Irms
Packaging 600	pcs. per 13-inch reel

Product Dimensions



WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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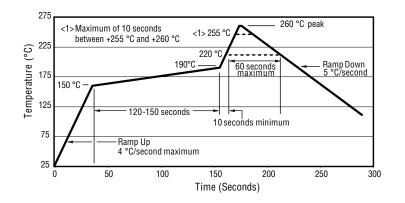
Applications

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

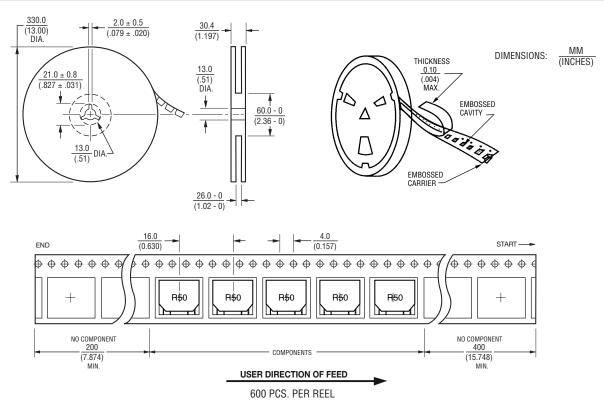
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Soldering Profile



Packaging Specifications



REV. 03/20

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