



Features

- Shielded construction – low radiation
- Low buzz noise
- Hot press molding process
- High current
- Low DCR
- RoHS compliant*

Applications

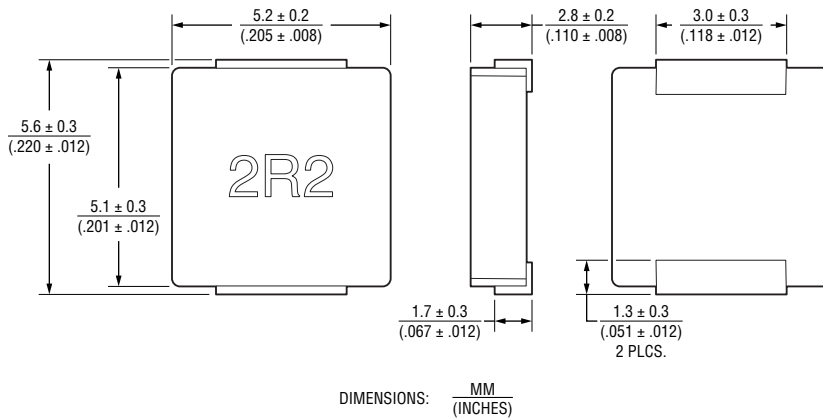
- DC-DC converters
- Power supplies

SRP5030HMT Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q 100 kHz	SRF (MHz)	DCR (mΩ)		I _{rms} (A)	I _{sat} (A)
	L (μH)	Tol. (%)			Typ.	Max		
SRP5030HMT-R47M	0.47	±20	20	76	3.1	3.7	18	14
SRP5030HMT-R68M	0.68			65	3.7	4.3	15	11.5
SRP5030HMT-1R0M	1.0			52	5.6	6.7	14	11
SRP5030HMT-1R5M	1.5			38	8.3	10	13	10.5
SRP5030HMT-2R2M	2.2			29	12	14.4	10.5	8.5
SRP5030HMT-3R3M	3.3			24	16	19.2	8.5	7.5
SRP5030HMT-4R7M	4.7			19	26	31.2	7	6.5
SRP5030HMT-5R6M	5.6			18	33	39.6	6.5	6.1
SRP5030HMT-6R8M	6.8			17	36	43.2	6.3	5.9
SRP5030HMT-8R2M	8.2			14	46	55.2	5.8	5.5
SRP5030HMT-100M	10			13	58	69.6	5.2	5
SRP5030HMT-150M	15			11	90	108	4.1	2.6
SRP5030HMT-220M	22			9	111	133.2	3.6	2.2

Product Dimensions



Additional Information

Click these links for more information:



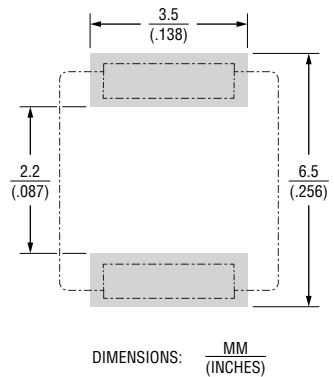
General Specifications

Operating Temperature -40 °C to +125 °C
 Storage Temperature -40 °C to +125 °C
 Temperature Rise 40 °C at rated I_{rms}
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Materials

Core Metal allow powder
 Wire Enameled copper
 Terminal Finish Cu/Ni/Sn
 Packaging 2,000 pcs. per 13-inch reel

Recommended Layout

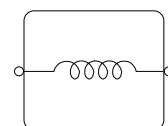


How to Order

SRP5030HMT - R47 M

Model _____
 Value Code (see table) _____
 Tolerance _____
 M = ±20 %

Electrical Schematic



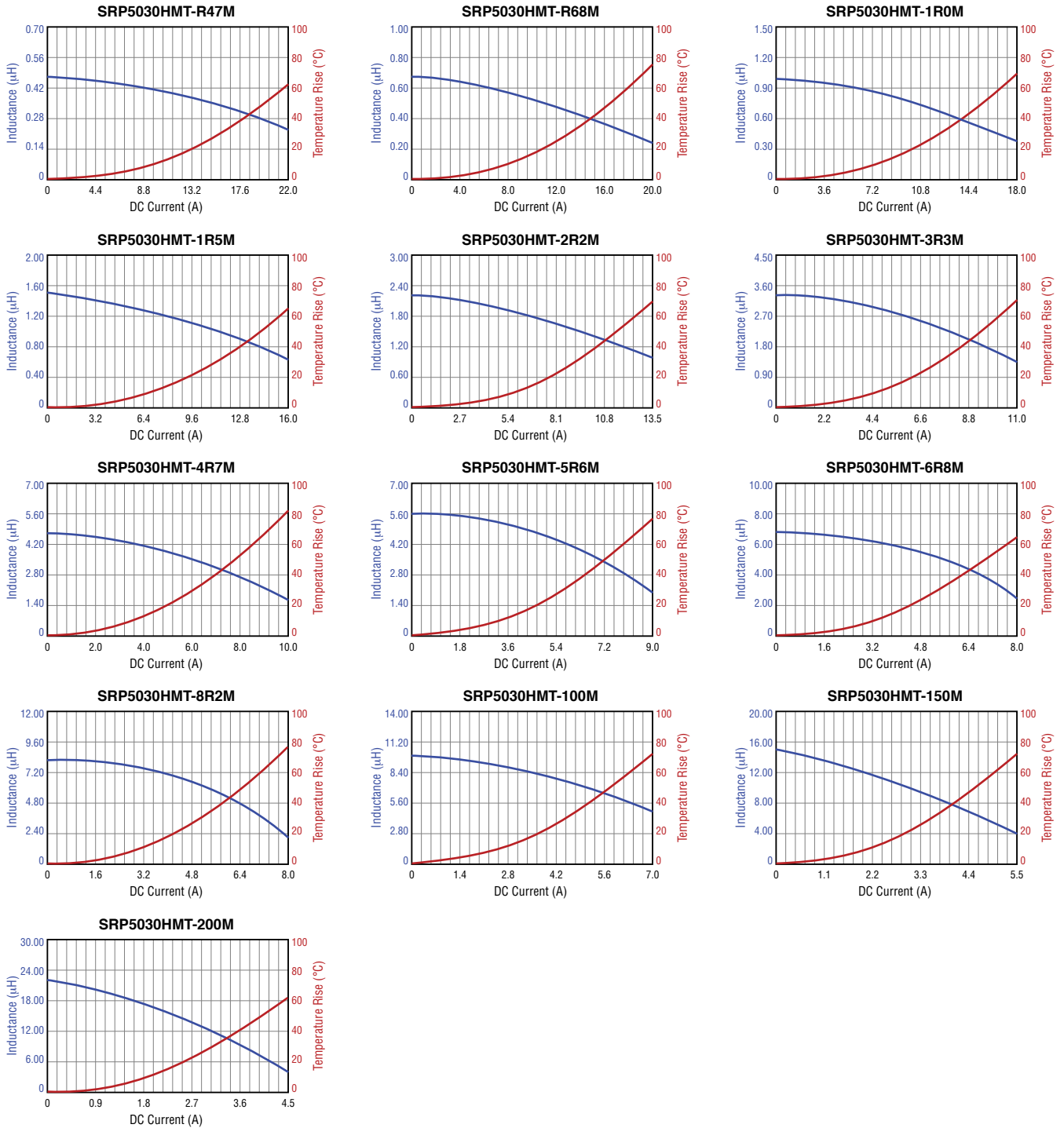
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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SRP5030HMT Series – Shielded Power Inductors



L vs. I Charts

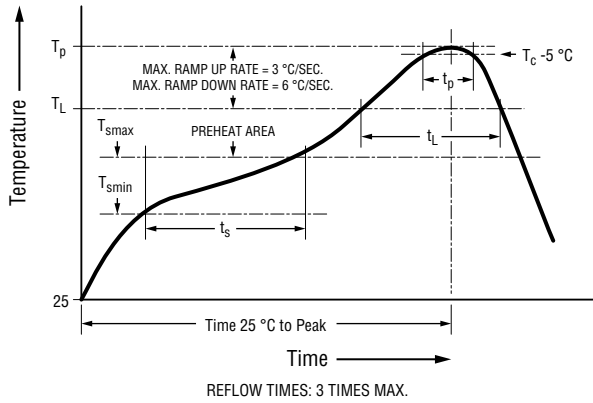


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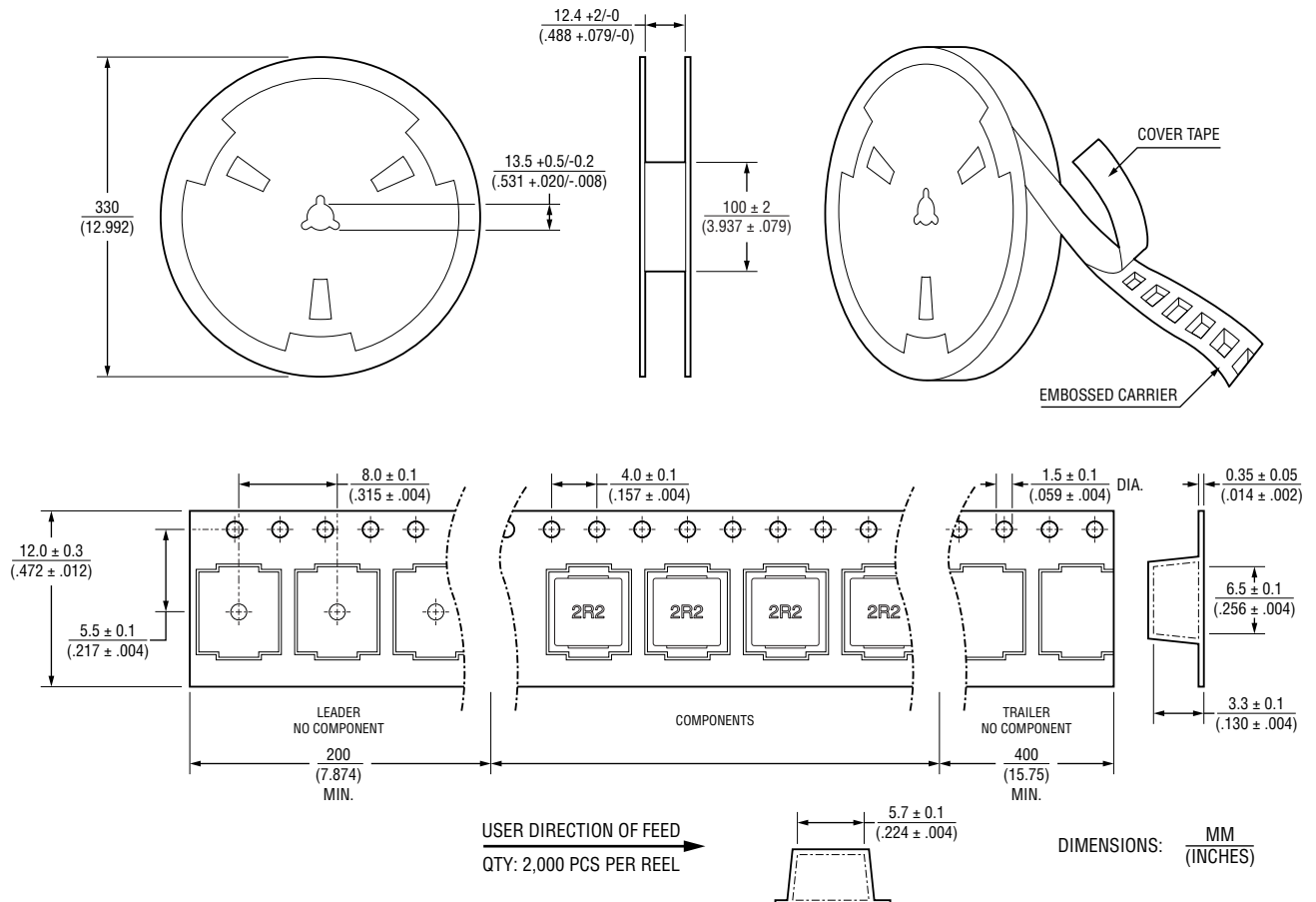
BOURNS®

Soldering Profile



Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> - 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 $T_c - 5\text{ °C}$ (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. 03/25

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