

Features

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

Applications

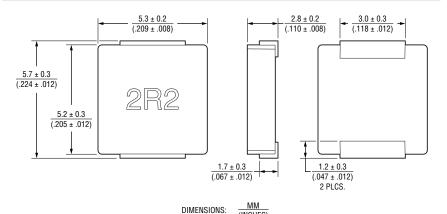
- DC-DC converters
- Power supplies

SRP5030HMCT Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns	Inductance @ 100 KHz/1 V		Q 100 kHz	SRF (MHz)	DCR (mΩ)		Irms (A)	Isat (A)
Part Number	L (µH)	Tol. (%)	Min.	Ref.	Тур.	Max	Тур.	Тур.
SRP5030HMCT-R24M	0.24		20	120	2.5	3	25	38
SRP5030HMCT-R33M	0.33		20	80	2.8	3.4	21	25
SRP5030HMCT-R36M	0.36	±20	15	70	2.9	3.5	20	24
SRP5030HMCT-R47M	0.47			60	3.2	3.9	19	20
SRP5030HMCT-R68M	0.68			50	4.3	5.2	17	18
SRP5030HMCT-1R0M	1.0		20	40	5.6	6.7	15	16
SRP5030HMCT-1R2M	1.2			32	7	8.4	14.5	15.3
SRP5030HMCT-1R5M	1.5			28	8.3	10	14	15
SRP5030HMCT-2R2M	2.2			20	12	14.4	12	12.5
SRP5030HMCT-3R3M	3.3			17	17.5	21	10	10.5
SRP5030HMCT-4R7M	4.7			14	27	32.4	8.5	10
SRP5030HMCT-5R6M	5.7			13	37	44.4	7.2	8
SRP5030HMCT-6R8M	6.8			12	41.5	50	6.6	7.5
SRP5030HMCT-8R2M	8.2			10	52	62.4	5.8	7.3
SRP5030HMCT-100M	10			9	65	78	5	6.8
SRP5030HMCT-150M	15			8	98	118	3.5	3.7
SRP5030HMCT-220M	22			6	133	160	3.1	3.5

Product Dimensions



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

*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. 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/legal/disclaimer.pdf.

Additional Information

Click these links for more information:











PRODUCT SELECTOR

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INVENTORY SAMPLES

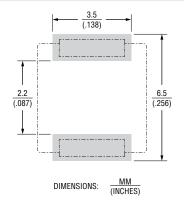
CONTACT

General Specifications

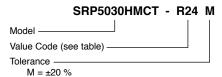
Operating Temperature
.....-40 °C to +125 °C
Storage Temperature
....-40 °C to +125 °C
Temperature Rise40 °C at rated Irms
Moisture Sensitivity Level1
ESD Classification (HBM).....N/A

Materials

Recommended Layout



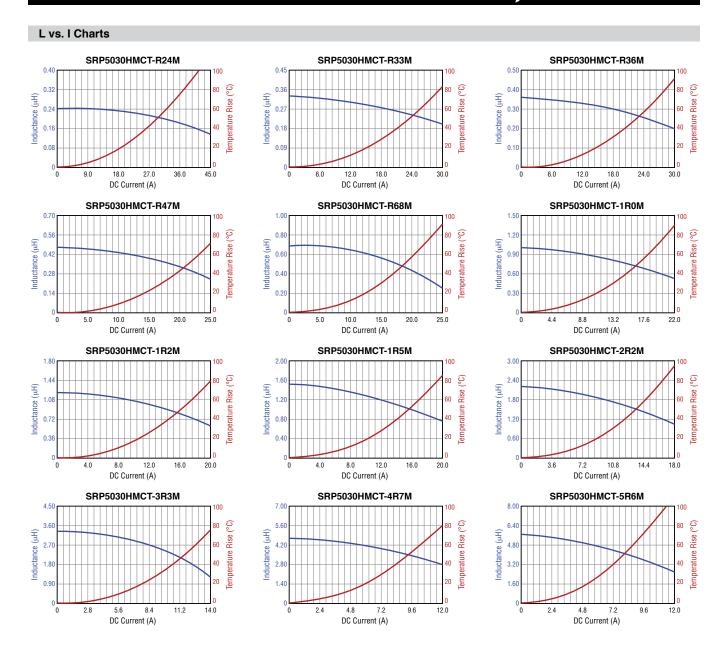
How to Order



Electrical Schematic

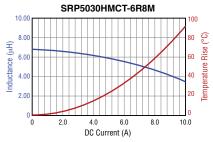


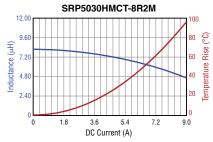
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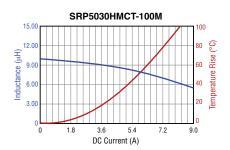


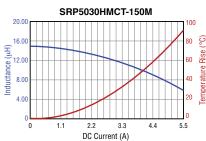
SRP5030HMCT Series – Shielded Power Inductors

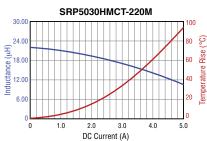
L vs. I Charts (continued)



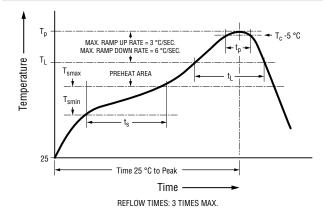








Soldering Profile

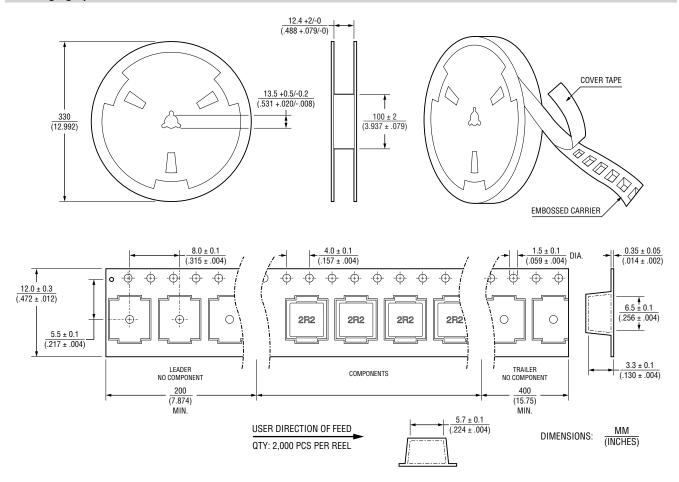


Profile Feature	Pb Free Assembly			
Preheat - Temperature Min. (T _{smin}) - Temperature Max. (T _{smax}) - Time(t _s) from T _{smin} to T _{smax}	150 °C 200 °C 60-120 seconds			
Ramp-up Rate (T _L to T _p)	3 °C/second max.			
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 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.			

SRP5030HMCT Series - Shielded Power Inductors

BOURNS

Packaging Specifications



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