



Features

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

Applications

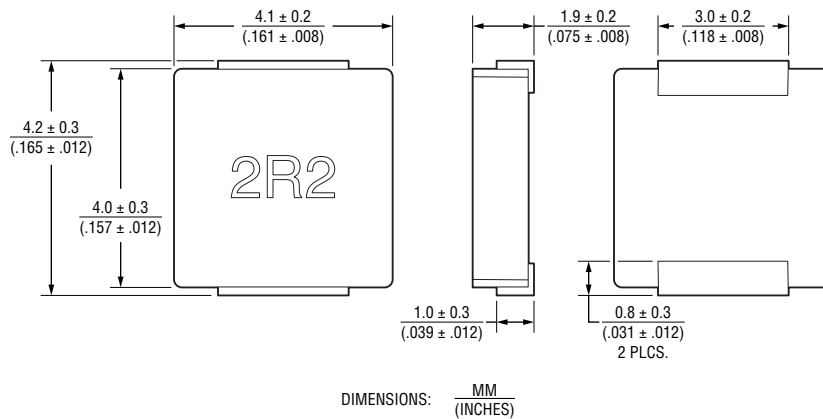
- DC-DC converters
- Power supplies

SRP4021HMT 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. (%)	Min.	Ref.	Typ.	Max.	Typ.	Typ.
SRP4021HMT-R10M	0.10	±20	6	255	1.6	2	24	26
SRP4021HMT-R15M	0.15		10	186	2.9	3.5	18	22
SRP4021HMT-R22M	0.22			170	4.1	4.9	16	16
SRP4021HMT-R33M	0.33			108	4.8	5.8	15	13.5
SRP4021HMT-R47M	0.47		15	86	6	7	13	11
SRP4021HMT-R68M	0.68		20	67	7.6	8.8	11	9.5
SRP4021HMT-1R0M	1.0			55	9.5	11	10	8
SRP4021HMT-1R5M	1.5			41	14	16	8.5	6.8
SRP4021HMT-2R2M	2.2			35	20.9	23	7.5	5.5
SRP4021HMT-3R3M	3.3			31	38	45.6	5.6	5
SRP4021HMT-4R7M	4.7			23	54	64.8	4.5	4.2
SRP4021HMT-5R6M	5.6			22	63	75.6	4.1	3.5
SRP4021HMT-6R8M	6.8			21	80.5	92.5	3.5	3.1
SRP4021HMT-8R2M	8.2			19	103	118.5	3.2	2.9
SRP4021HMT-100M	10			17	115	132	2.8	2.7

Product Dimensions



Additional Information

Click these links for more information:



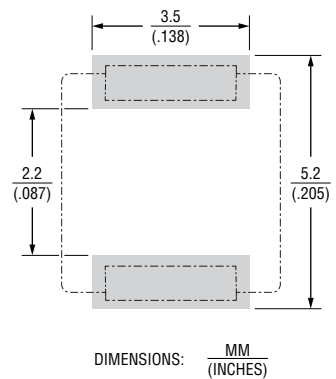
General Specifications

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 alloy powder
Wire Enameled copper
Terminal Finish Cu/Ni/Sn
Packaging 3,000 pcs. per 13-inch reel

Recommended Layout

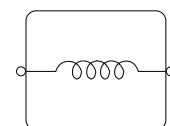


How to Order

SRP4021HMT - R10 M

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

Electrical Schematic



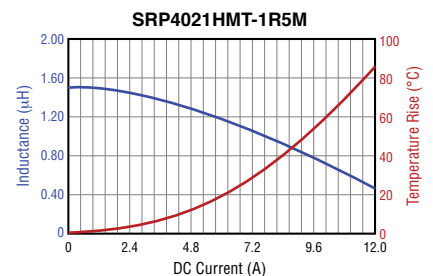
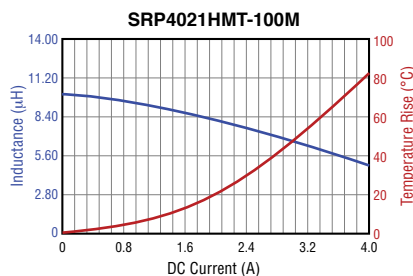
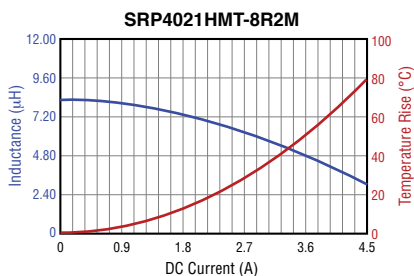
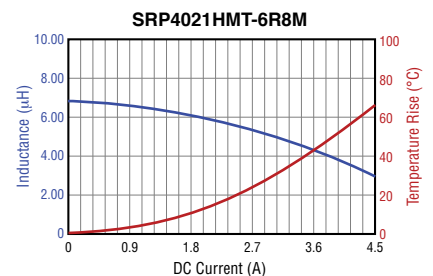
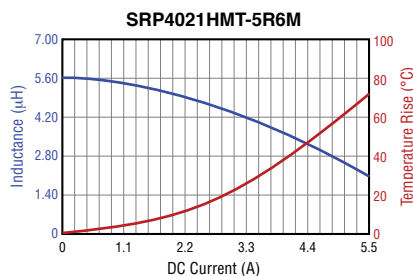
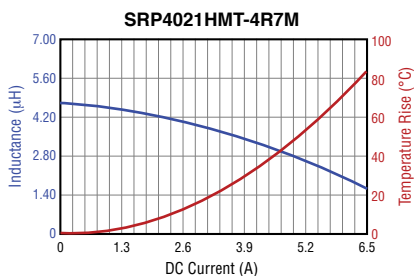
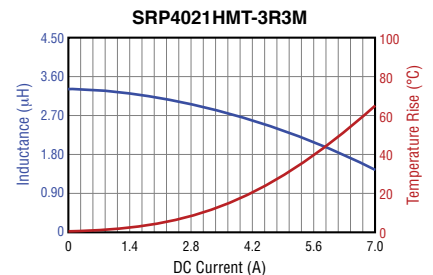
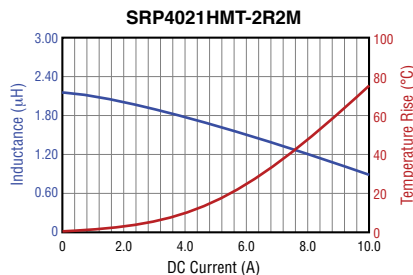
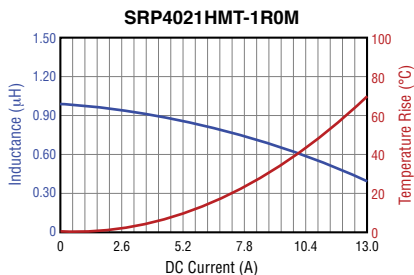
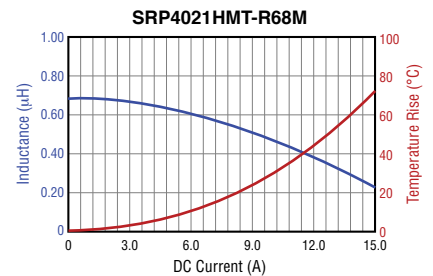
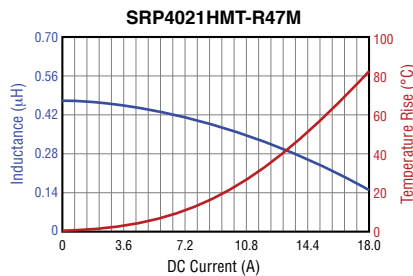
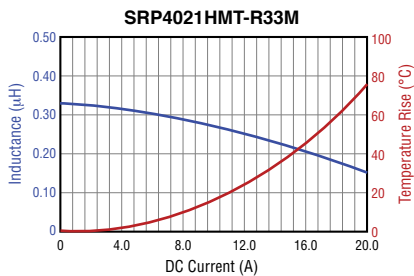
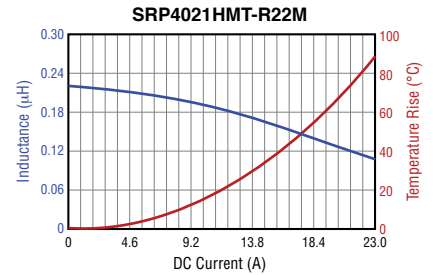
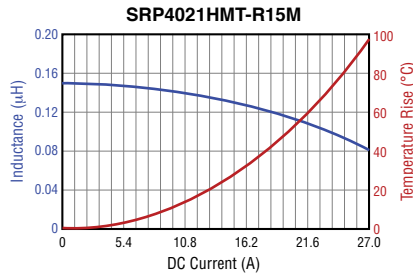
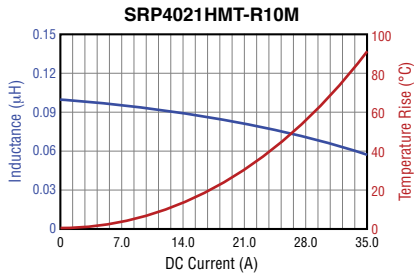
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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SRP4021HMT Series – Shielded Power Inductors

BOURNS®

L vs. I Charts



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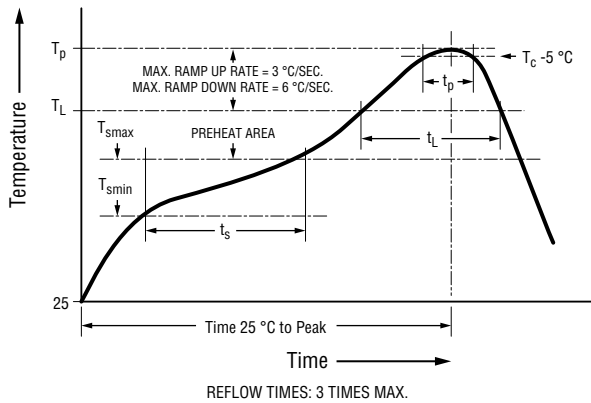
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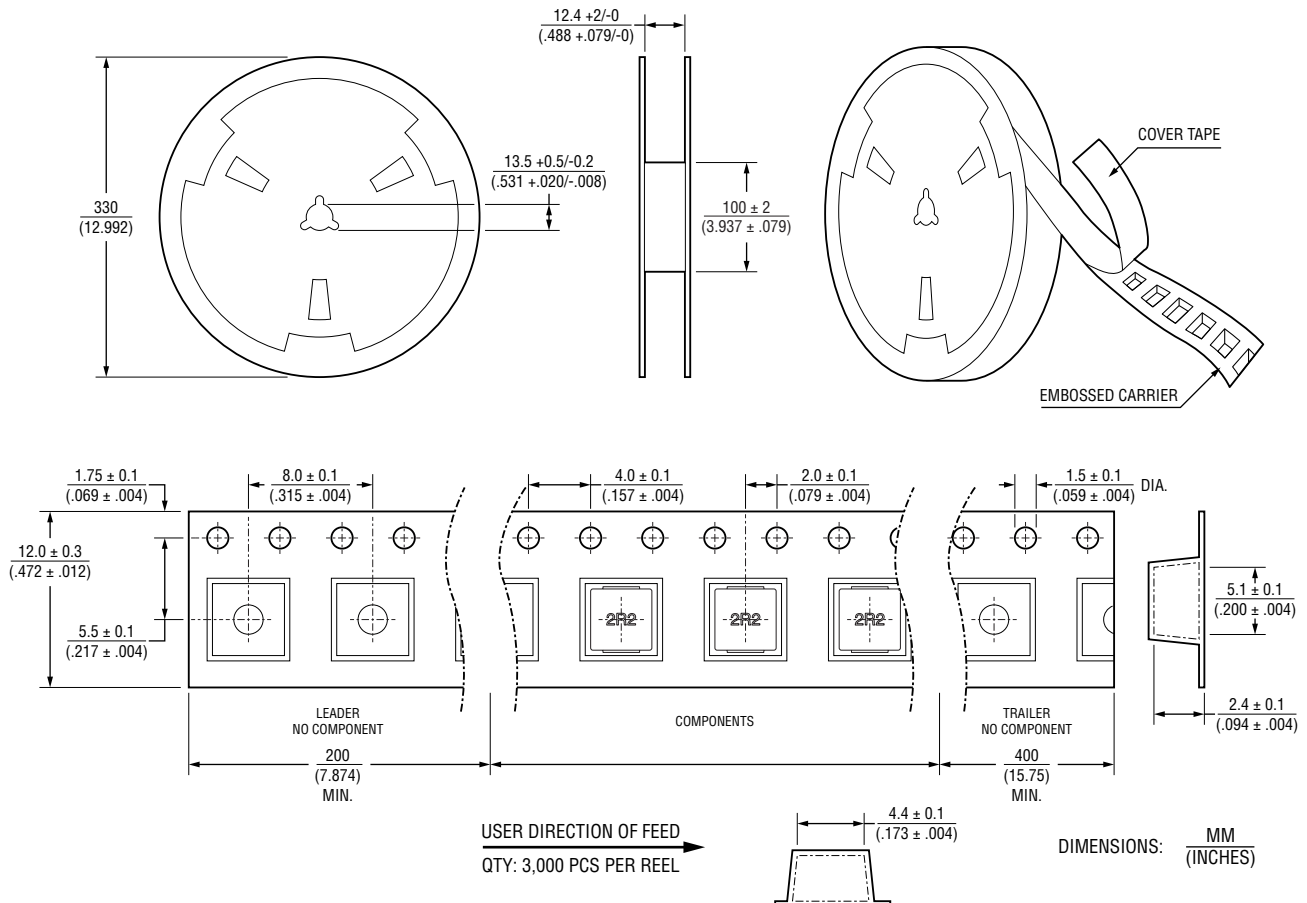
BOURNS®

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)	260 °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. 05/25

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