

Features

- Compact size
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current

SRP2010TMA Series - Shielded Power Inductors

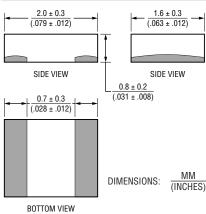
- Flat wire
- Low DCR

- Wide range of operating temperatures
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

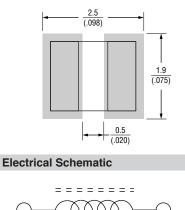
Electrical Specifications @ 25 °C

	Inductance @ 1 MHz / 1 V		Q 1 MHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	lsat (A)
Bourns Part No.	L (μ H)	Tol. %	Тур.	Тур.	Тур.	Max.	Тур.	Тур.
SRP2010TMA-R24M	0.24	20	15	130	18	20.5	6.5	7.7
SRP2010TMA-R33M	0.33	20	15	112	21	26	5.7	7.0
SRP2010TMA-R47M	0.47	20	15	82	28	32	5.3	6.0
SRP2010TMA-R56M	0.56	20	15	80	31	37.2	4.6	5.2
SRP2010TMA-R68M	0.68	20	15	78	44	50	4.0	5.0
SRP2010TMA-1R0M	1.00	20	15	60	49	59	3.6	4.4
SRP2010TMA-1R5M	1.50	20	15	52	80	96	2.6	3.0
SRP2010TMA-2R2M	2.20	20	15	42	130	150	2.3	2.65

Product Dimensions



Recommended Layout



Profile Feature

- Temperature Min. (Tsmin)

Ramp-up Rate (TL to Tp)

Liquidous temperature (T_L) Time (t_L) maintained above T_L

Ramp-Down Rate (Tp to TL)

Time 25 °C to Peak Temperature

- Temperature Max. (T_{smax})

- Time(t_s) from T_{smin} to T_{smax}

Peak package body temperature (Tp)

Time within 5 °C of Actual Peak Temperature

Preheat

(tp)

Additional Information

Click these links for more information:



General Specifications

Operating Temperature

.....Inductance drops 30 % at Isat Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

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	Metal alloy powder
Wire	Enameled copper
Terminal Finish	Ni/Sn
Packaging	2000 pcs. per 7-inch reel

How to Order

SRP2010TMA - 1R0M

Pb Free Assembly

60-120 seconds

3 °C/second max.

60-150 seconds

< 30 seconds

8 minutes max.

6 °C/second max.

150 °C

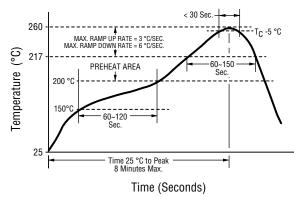
200 °C

217 °C

260 °C

Model Value Code (see table)

Soldering Profile



REFLOW TIMES: 3 TIMES MAX.



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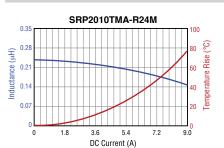
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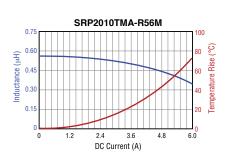
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if
(a) the Bromine (Br) content is 900 ppm or less; (b)
the Chlorine (Cl) content is 900 ppm or less; and (c)
the total Bromine (Br) and Chlorine (Cl) content is
1500 ppm or less.

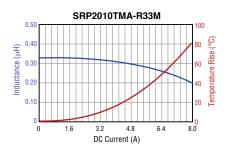
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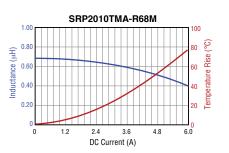
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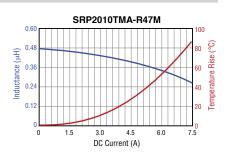
L vs. I Charts

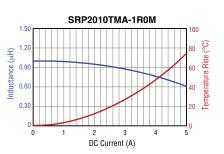


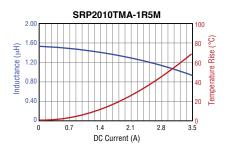


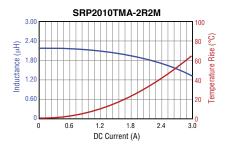












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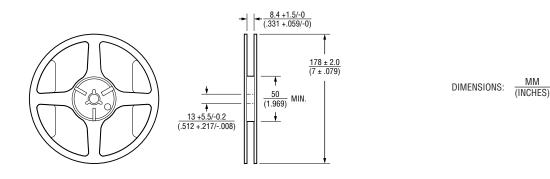
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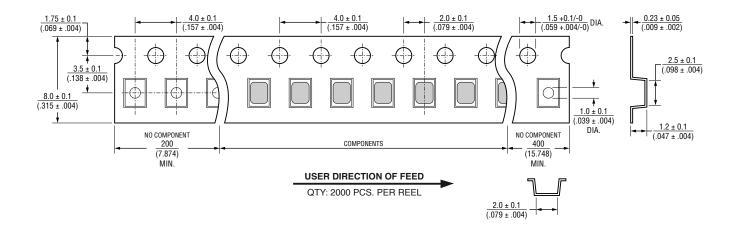
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MM

Packaging Specifications





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