



Features

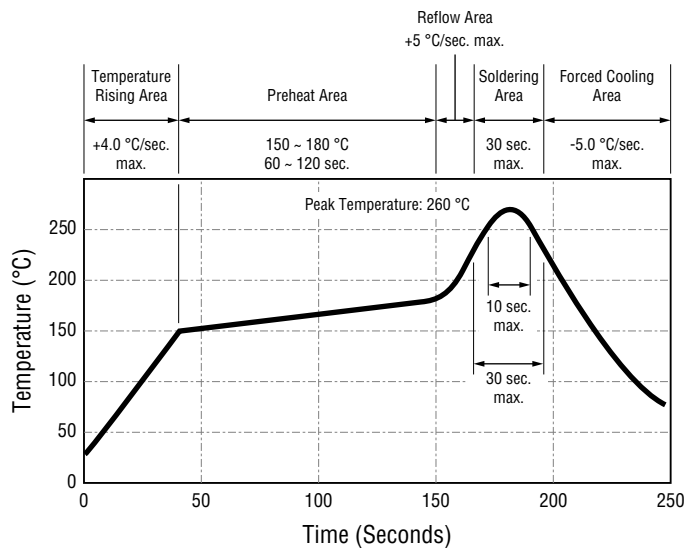
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP2010DPA Series - Shielded Power Inductors

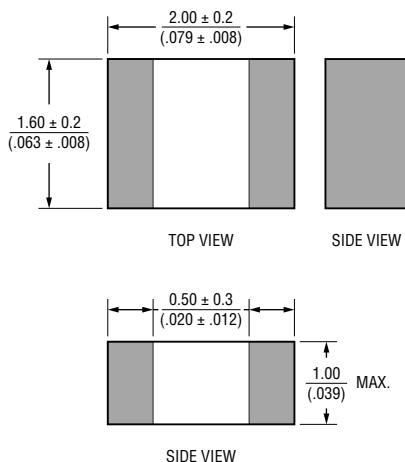
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 1 V		DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. %				
SRP2010DPA-R47M	0.47	20	29	40	3.60	4.50
SRP2010DPA-R56M	0.56	20	42	57	3.00	4.00
SRP2010DPA-1R0M	1.0	20	57	70	2.60	3.40
SRP2010DPA-1R5M	1.5	20	83	110	2.10	2.80
SRP2010DPA-2R2M	2.2	20	137	168	1.60	2.20
SRP2010DPA-3R3M	3.3	20	202	225	1.40	1.90
SRP2010DPA-4R7M	4.7	20	315	360	1.10	1.50

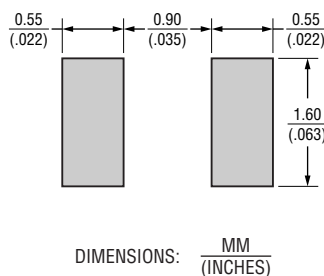
Soldering Profile



Product Dimensions



Recommended Layout



Additional Information

Click these links for more information:



General Specifications

Operating Temperature

..... -40 °C to +125 °C
(Temperature rise included)

Storage Temperature (Component)

..... -40 °C to +125 °C

Temperature Rise ... 40 °C at rated Irms¹

Rated Current

..... 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

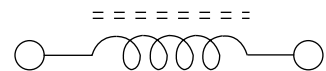
Core..... Metal alloy powder

Wire..... Enameled copper

Terminal Finish..... Ni/Sn

Packaging..... 3000 pcs. per 7-inch reel

Electrical Schematic



How to Order

SRP2010DPA - R47M

Model _____
Value Code (see table) _____



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

* 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.

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.

BOURNS®

Technical drawing of a 35mm film canister showing front, side, and end views with dimensions in inches and millimeters.

Front View Dimensions:

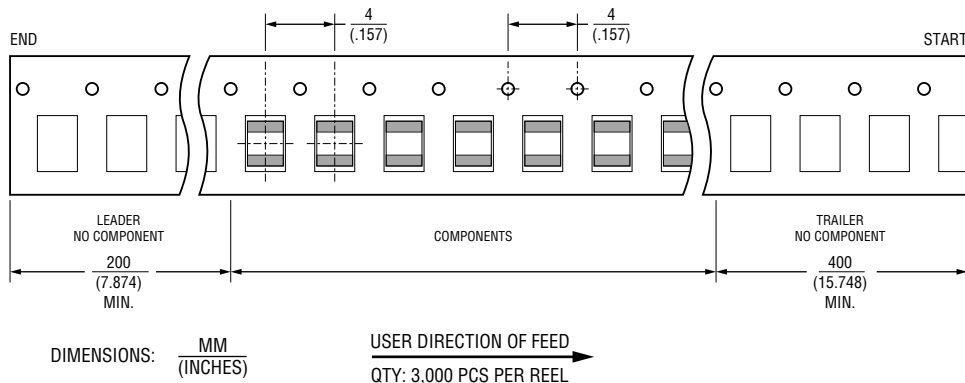
- Overall Diameter: 178 ± 0.8 ($7.008 \pm .031$)
- Central Opening Diameter: 13 ± 0.5 ($.512 \pm .020$) DIA.
- Inner Ring Diameter: 21 ± 0.8 ($.827 \pm .031$)
- Central Opening Width: 2.0 ± 0.5 ($.079 \pm .020$)

Side View Dimensions:

- Top Flange Thickness: 12.5 ($.492$)
- Body Diameter: 13 ($.512$) DIA.
- Body Length: $50 - 0$ ($1.969 - 0$)
- Bottom Flange Thickness: $10 + 0$ ($.394 + 0$)

End View Dimensions:

- Carrier Width: 8 ($.315$)
- Labels: COVER TAPE, EMBOSSED CARRIER



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