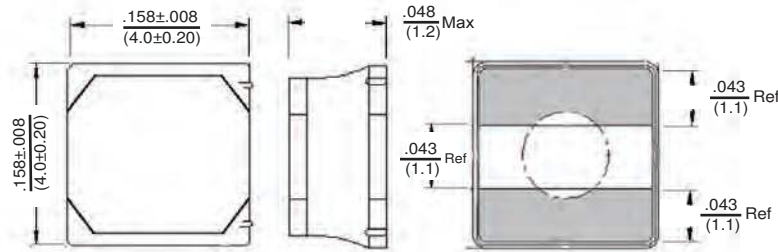




SMD SEMI SHIELDED POWER CHIP INDUCTOR

PCHP42

Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. (100KHz)	SRF (MHz)	DCR Ω ±20%	Isat (A) Typ	Irms (A) (Max)
PCHP42-1R0T-RC	1.0	30	100/1v	100	.042	2.80	2.20
PCHP42-2R2M-RC	2.2	20	100/1v	70	.060	1.65	1.90
PCHP42-3R3M-RC	3.3	20	100/1v	60	.070	1.40	1.70
PCHP42-4R7M-RC	4.7	20	100/1v	45	.095	1.20	1.50
PCHP42-6R8M-RC	6.8	20	100/1v	35	.125	0.90	1.30
PCHP42-100M-RC	10	20	100/1v	30	.180	0.80	1.10
PCHP42-150M-RC	15	20	100/1v	24	.260	0.65	0.75
PCHP42-220M-RC	22	20	100/1v	18	.400	0.50	0.62

All specifications subject to change without notice.

Features

- Semi Magnetically Shielded
- High Current
- Low DC Resistance
- Ultra Low Profile, 1.2mm Max

Electrical

Inductance Range: 1.0~ 22uH

Tolerance: 20% over entire range, 30% for 1.0uH, available in tighter tolerances

Operating Temp: -40°C ~ +125°C

Isat: Current at which the Inductance will drop by no more than 30% of its initial value.

Irms: Based on a temp rise of $\Delta T = 40^\circ\text{C}$ typical above Ambient Temp.

Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.

Solder Composition: Sn 99.5%/Cu0.5

Flux for Lead Free: Rosin 9.5%

Solder Temp: 245+/- 5°C for 4 sec

Test Equipment

(L): Agilent 4287A + Agilent HP4291

(RDC): Agilent 4338

Physical

Packaging: 4500 per 13" Tape and reel

Marking: EIA Code