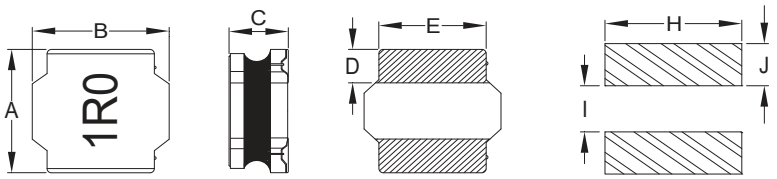
SMD SHIELDED POWER CHIP INDUCTOR PCSV80

Dimensions: inch (mm)



Recommended PCB Layout

A	B	C	D	E	H	I	J
.315±.008 (8.0±0.2)	.315±.008 (8.0±0.2)	.157+.008/-.012 (4.0+0.2/-0.3)	.091±.012 (2.3±0.3)	.248 (6.3) Typ.	.295 (7.5)	.139 (3.4)	.098 (2.5)

Allied Part Number	Inductance (µH)	Tolerance (%)	Test Freq. KHz, 1V	RDC (mΩ) ±30%	Isat (A) Typ.	Irms (A) Typ.	Marking
PCSV80-R90T-RC	0.9	30	100	7	13.8	8.05	R90
PCSV80-1R0T-RC	1.0	30	100	7.5	13.0	7.95	1R0
PCSV80-1R4T-RC	1.4	30	100	9	10.8	7.80	1R4
PCSV80-1R5T-RC	1.5	30	100	9.5	10.0	7.70	1R0
PCSV80-2R0M-RC	2.0	20	100	11	9.60	7.40	2R0
PCSV80-2R2M-RC	2.2	20	100	11.5	9.20	7.20	2R2
PCSV80-2R5M-RC	2.5	20	100	13	8.20	6.30	2R5
PCSV80-3R3M-RC	3.3	20	100	15	7.50	6.00	3R3
PCSV80-4R7M-RC	4.7	20	100	18	6.00	5.50	4R7
PCSV80-5R6M-RC	5.6	20	100	23	5.70	5.20	5R6
PCSV80-6R8M-RC	6.8	20	100	25	5.40	5.10	6R8
PCSV80-100M-RC	10	20	100	38	4.30	3.80	100
PCSV80-120M-RC	12	20	100	45	3.80	3.50	120
PCSV80-150M-RC	15	20	100	50	3.60	3.20	150
PCSV80-180M-RC	18	20	100	68	3.10	2.70	180
PCSV80-220M-RC	22	20	100	80	2.80	2.60	220
PCSV80-330M-RC	33	20	100	110	2.30	2.00	330
PCSV80-470M-RC	47	20	100	160	1.90	1.75	470
PCSV80-680M-RC	68	20	100	240	1.70	1.45	680
PCSV80-101M-RC	100	20	100	340	1.40	1.10	101
PCSV80-121M-RC	121	20	100	425	1.10	1.00	121
PCSV80-151M-RC	150	20	100	480	1.00	.900	151
PCSV80-221M-RC	220	20	100	670	.940	.600	221
PCSV80-270M-RC	270	20	100	900	.830	.550	271
PCSV80-821M-RC	820	20	100	2800	.400	.380	821

All specifications subject to change without notice.

Features

- Magnetically Shielded Construction
- Low Profile

Electrical

Inductance Range: 0.9µH ~ 820µH
Tolerance: Available in 20% & 30%
Operating Temp: -55ºC ~ +125ºC
Isat: Current at which the Inductance will drop by no more then 30% of its initial value.
Irms: Based on a temp rise of Δ T = 40ºC typical.

Resistance to Soldering Heat

Pre-Heat: 150ºC, 1 Min.
Solder Composition: Sn/Ag3.0/Cu0.5
Solder Temp: 260ºC +/- 5ºC for 10 sec

Test Equipment

(L): HP4284A
(RDC): Chroma MilliOhm Meter Mode 16502
Current: HP4284A + HP42841A

Physical

Packaging: 1K per Tape and reel
Marking: EIA Inductance Code