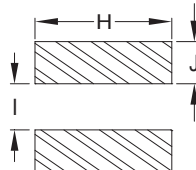
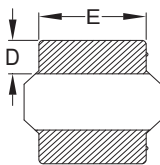
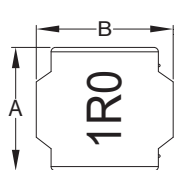




SMD SHIELDED POWER CHIP INDUCTOR

PCSV80

Dimensions: $\frac{\text{inch}}{\text{mm}}$ Recommended
PCB Layout

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

Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. KHz, 1V	RDC ($\text{m}\Omega$) $\pm 30\%$	Isat (A) Typ.	I _{rms} (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:** 0.9 μH ~ 820 μH **Tolerance:** Available in 20% & 30%**Operating Temp:** -55°C ~ +125°C**Isat:** Current at which the Inductance will drop by no more than 30% of its initial value.**I_{rms}:** Based on a temp rise of $\Delta T = 40^\circ\text{C}$ typical.**Resistance to Soldering Heat****Pre-Heat:** 150°C, 1 Min.**Solder Composition:** Sn/Ag3.0/Cu0.5**Solder Temp:** 260°C +/- 5°C 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