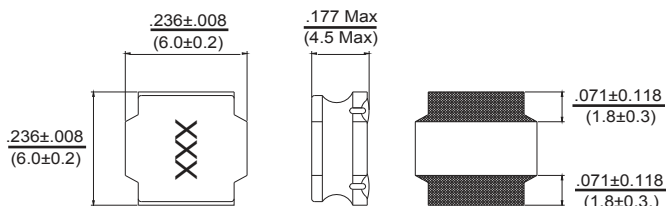




## SMD SHIELDED POWER CHIP INDUCTOR

PCSV65

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

Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq KHz, 1V	RDC m(Ω) ±30%	Isat (A) Typ	Irms (A) Typ
PCSV65-1R0M-RC	1.0	20	100	12	12.2	6.5
PCSV65-1R2M-RC	1.2	20	100	13	10.6	5.9
PCSV65-1R5M-RC	1.5	20	100	15	10.4	5.9
PCSV65-1R8M-RC	1.8	20	100	17	9.6	5.6
PCSV65-2R2M-RC	2.2	20	100	18.4	8.8	5.1
PCSV65-2R3M-RC	2.3	20	100	19	8.8	5.0
PCSV65-3R0M-RC	3.0	20	100	22	7.8	4.4
PCSV65-3R3M-RC	3.3	20	100	24	7.5	4.3
PCSV65-3R6M-RC	3.6	20	100	24	7.5	4.3
PCSV65-3R9M-RC	3.9	20	100	26	7.0	4.0
PCSV65-4R5M-RC	4.5	20	100	31	6.7	3.9
PCSV65-4R7M-RC	4.7	20	100	31	6.7	3.9
PCSV65-5R1M-RC	5.1	20	100	33	6.0	3.5
PCSV65-5R6M-RC	5.6	20	100	40	5.5	3.3
PCSV65-6R3M-RC	6.3	20	100	40	5.5	3.3
PCSV65-6R8M-RC	6.8	20	100	43	5.3	3.2
PCSV65-8R2M-RC	8.2	20	100	53	4.6	2.9
PCSV65-100M-RC	10	20	100	57	4.5	2.7
PCSV65-150M-RC	15	20	100	80	3.4	2.2
PCSV65-180M-RC	18	20	100	100	3.1	1.8
PCSV65-220M-RC	22	20	100	125	3.0	1.9
PCSV65-270M-RC	27	20	100	160	2.5	1.3
PCSV65-330M-RC	33	20	100	165	2.3	1.4
PCSV65-470M-RC	47	20	100	245	1.9	1.2
PCSV65-560M-RC	56	20	100	310	1.7	1.1
PCSV65-680M-RC	68	20	100	330	1.6	1.0
PCSV65-101M-RC	100	20	100	500	1.3	0.8
PCSV65-221M-RC	220	20	100	1300	0.82	0.38
PCSV65-331M-RC	330	20	100	1800	0.7	0.35
PCSV65-102M-RC	1000	20	100	6000	0.4	0.22

All specifications subject to change without notice

**Features**

- Magnetically Shielded Construction
- Low Profile

**Electrical**

**Inductance Range:** 1.0uh ~ 1000uh (other values being added)

**Tolerance:** Available in 20%

**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.

**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 16502

**Current:** HP4284A + HP42841A

**Physical**

**Packaging:** 1000 pcs per 12 inch reel

**Marking:** EIA Inductance Code.

**Recommended PCB layout**