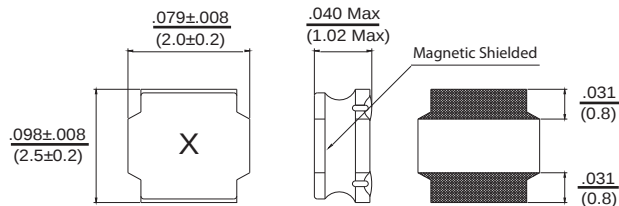




# SMD SHIELDED POWER CHIP INDUCTOR

# PCSV24

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



| Allied Part Number | Inductance (μh) | Tolerance (%) | Test Freq. 1MHz, 200mV | RDC (mΩ) ±30% | Isat (mA) Typ. | Irms (mA) Typ. | Marking |
|--------------------|-----------------|---------------|------------------------|---------------|----------------|----------------|---------|
| PCSV24-1R0M-RC     | 1.0             | 20            | 1                      | 0.093         | 2200           | 2200           | A       |
| PCSV24-1R5M-RC     | 1.5             | 20            | 1                      | 0.148         | 1900           | 1800           | B       |
| PCSV24-2R2M-RC     | 2.2             | 20            | 1                      | 0.178         | 1620           | 1680           | C       |
| PCSV24-3R3M-RC     | 3.3             | 20            | 1                      | 0.286         | 1220           | 1340           | D       |
| PCSV24-4R7M-RC     | 4.7             | 20            | 1                      | 0.421         | 1040           | 1020           | E       |
| PCSV24-5R6M-RC     | 5.6             | 20            | 1                      | 0.481         | 920            | 940            | F       |
| PCSV24-6R8M-RC     | 6.8             | 20            | 1                      | 0.598         | 900            | 880            | G       |
| PCSV24-150M-RC     | 10              | 20            | 1                      | 0.797         | 740            | 820            | H       |
| PCSV24-220M-RC     | 22              | 20            | 1                      | 1.839         | 500            | 520            | I       |

All specifications subject to change without notice.

## Features

- Magnetically Shielded Construction
- Ultra Low Profile

## Electrical

**Inductance Range:** 1.0μh ~ 220μh (other values being added)

**Tolerance:** Available in 20% and 30% tolerances

**Operating Temp:** -25°C ~ +105°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 ΔT = 40°C typical at 25°C ambient.

## 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):** HP4287A + Agilent/HP16197A, 1MHz 200mV

**(RDC):** Chroma MilliOhm Meter Mode 16502

**Current:** Agilent/HP4284A 1MHz 200mV

## Physical

**Packaging:** 2K per Tape and reel

**Marking:** As indicated