Features

- Low pro file & High Current capability
- Inductance range : 0.47 to 100μH
- AEC-Q200 qualified
- RoHS compliant

Applications

- Automotive systems :
  - Driver assistant / Entertainment / Lighting
- DC/DC converters
- Power supplies
- Noise suppression for motors

Molding Inductor - SPI Series(17mm)

Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-170-75-R22	0.22	0.6	0.9	129.0	80.0
SPI-170-75-1R0	1.0	1.6	2.1	66.0	42.0
SPI-170-75-1R5	1.5	1.9	2.5	65.0	40.0
SPI-170-75-2R2	2.2	2.3	3.0	60.0	35.0
SPI-170-75-3R3	3.3	3.1	3.9	50.0	30.0
SPI-170-75-4R0	4.0	3.5	4.3	39.0	26.0
SPI-170-75-4R7	4.7	3.9	5.2	32.0	24.0
SPI-170-75-5R6	5.6	5.3	6.5	33.0	20.0
SPI-170-75-6R8	6.8	6.6	8.0	31.0	19.0
SPI-170-75-8R2	8.2	8.0	9.5	30.0	17.0
SPI-170-75-100	10.0	11.0	13.0	25.0	10.0
SPI-170-75-150	15.0	15.0	17.0	24.0	9.5
SPI-170-85-220	22.0	22.7	25.0	20.0	9.0
SPI-170-85-330	33.0	34.7	37.0	18.0	6.0
SPI-170-85-470	47.0	40.7	42.7	16.0	6.0

Characteristics

Standard Atmospheric Condition

§ Ambient Temperature : 25℃
§ Relative Humidity : 65%
§ Air Pressure : 1013 hPa

Operation Temperature

§ Operation Temperature
-55℃ ~ 155℃
§ As the product temperature rises due to self-heating, the margin must be taken into account.
§ Storage Temperature
-55℃ ~ 155℃
§ Resistance to Soldering Heat
+245℃ for 10 sec.
§ Temperature Rise
+40℃ typ. At rated | rms
§ Inductance Drop
20% typ.at | sat

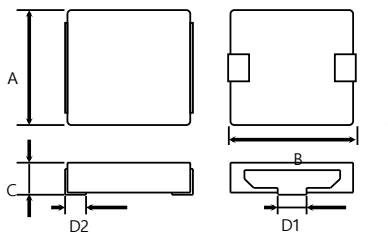
Identification

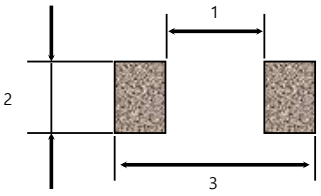
SPI-170-75-150

① ② ③ ④

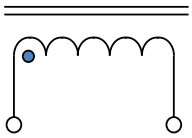
① Product name, SMD Power Inductor
② Dimension Width, mm
③ Dimension Height, mm
④ Inductance, 150 = 15uH

Product Dimensions





Electrical Schematic



Series No.	A	B	C	D1	D2	1	2	3
SPI 170-75 Series	17.15±0.5	18.0±0.3	7.5 max	12±0.2	2.5±0.4	11.4	12.2	18.9

Quantity Info.

§ Quantity per Reel : 300pcs
§ One box contains 3 reels(900pcs)
In box contains 1 reels(300pcs)