



### Features

- Low profile & High Current capability
- Inductance range : 0.1 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(P) Series(10mm)

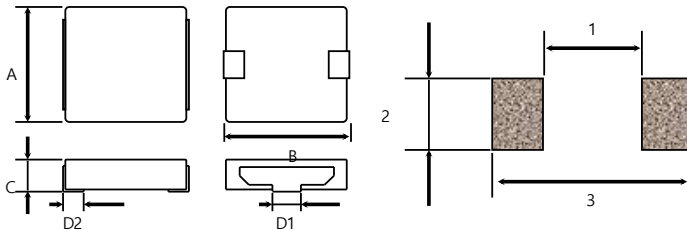
### Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-100-40-R36	0.36	1.5	2.0	45.0	31.5
SPI-100-40-R56	0.56	2.1	2.6	40.0	25.0
SPI-100-40-1R0	1.0	4.0	5.0	30.0	15.5
SPI-100-40-1R5	1.5	6.0	7.5	27.5	14.0
SPI-100-40-2R2	2.2	7.7	9.0	23.0	11.0
SPI-100-40-3R3	3.3	13.5	15.0	18.6	10.0
SPI-100-40-4R7	4.7	17.5	19.5	15.0	9.0
SPI-100-40-5R6	5.6	23.9	24.5	14.5	8.0
SPI-100-40-6R8	6.8	27.0	30.0	14.0	7.5
SPI-100-40-8R2	8.2	31.5	34.0	13.0	7.0
SPI-100-40-100	10.0	37.5	40.0	12.0	6.0
SPI-100-40-150	15.0	76.0	85.0	9.0	5.0
SPI-100-40-220	22.0	63.0	69.0	4.5	5.0

SPI-100-50-R56	0.56	1.9	2.2	35.0	28.0
SPI-100-50-1R0	1.0	3.2	4.0	28.0	20.0
SPI-100-50-2R2	2.2	5.9	8.8	25.0	12.0
SPI-100-50-3R3	3.3	11.5	13.0	22.0	11.0
SPI-100-50-4R7	4.7	16.3	17.0	19.5	10.0
SPI-100-50-5R6	5.6	16.5	18.0	16.5	9.0
SPI-100-50-6R8	6.8	17.5	19.0	15.0	8.0
SPI-100-50-100	10.0	28.0	32.0	14.0	7.5
SPI-100-50-150	15.0	66.0	70.0	10.0	4.0
SPI-100-50-220	22.0	84.0	92.0	4.8	3.5
SPI-100-50-330	33.0	110.0	120.0	4.5	3.0
SPI-100-50-470	47.0	140.0	148.0	5.0	2.8

SPI-100-70-3R3	3.3	10.0	12.0	22.0	11.0
SPI-100-70-5R6	5.6	15.3	17.6	18.0	9.5
SPI-100-70-6R8	6.8	18.5	21.5	16.0	7.8
SPI-100-70-8R2	8.2	21.0	24.5	14.0	7.5
SPI-100-70-100	10.0	27.8	33.0	12.5	7.0
SPI-100-70-150	15.0	34.5	37.8	12.0	6.5

### Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPI 100-40 Series	10.0±0.4	10.7±0.4	4.0 max	4.0±0.2	2.2±0.3	5.5	4.4	12.6
SPI 100-50 Series	10.0±0.4	10.7±0.4	5.0 max	4.0±0.2	2.2±0.3	5.5	4.4	12.6
SPI 100-70 Series	10.0±0.4	10.7±0.4	7.0 max	4.0±0.2	2.2±0.3	5.5	4.4	12.6

### Characteristics

#### Standard Atmospheric Condition

- § Ambient Temperature : 25°C
- § Relative Humidity : 65%
- § Air Pressure : 1013 hPa

#### Operation Temperature

- § Operation Temperature -55°C ~ 155°C
- § As the product temperature rises due to self-heating, the margin must be taken into account.

#### Storage Temperature

- 55°C ~ 155°C

#### Resistance to Soldering Heat

- +245°C for 10 sec.

#### Temperature Rise

- +40°C typ. At rated | rms

#### Inductance Drop

- 20% typ.at | sat

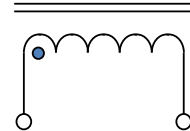
### Identification

#### SPI-100-40-8R2

- ① ② ③ ④

- ① Product name, SMD Power Inductor
- ② Dimension Width, mm
- ③ Dimension Height, mm
- ④ Inductance, 8R2 = 8.2uH

### Electrical Schematic



### Quantity Info.

- § Quantity per Reel : 500pcs
- § One box contains 6 reels(3,000pcs)
- In box contains 2 reels(1,000pcs)