



### Features

- Low profile & 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(13mm)

### Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-130-65-R33	0.33	1.2	1.7	70.0	44.4
SPI-130-65-1R0	1.0	2.5	3.0	49.0	32.0
SPI-130-65-1R5	1.5	2.7	3.5	35.0	28.0
SPI-130-65-2R2	2.2	4.1	5.0	38.0	26.0
SPI-130-65-3R3	3.3	5.5	6.8	35.0	18.0
SPI-130-65-4R7	4.7	7.5	10.0	30.0	14.0
SPI-130-65-6R8	6.8	12.0	16.0	18.0	11.0
SPI-130-65-8R2	8.2	14.0	17.0	17.0	10.0
SPI-130-65-100	10.0	19.0	21.0	16.0	9.0
SPI-130-65-150	15.0	37.0	41.0	11.0	7.5
SPI-130-65-220	22.0	50.0	55.0	10.0	6.5
SPI-130-65-330	33.0	62.0	68.0	8.5	5.5
SPI-130-65-470	47.0	75.0	85.0	5.5	2.7
SPI-130-65-680	68.0	91.0	115.0	4.5	2.4
SPI-130-65-101	100.0	175.0	194.0	3.5	1.9

### 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

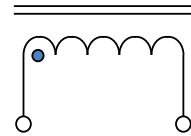
### Identification

#### SPI-130-65-8R2

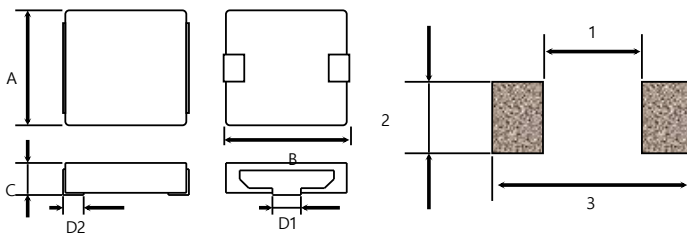
- ① ② ③ ④

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

### Electrical Schematic



### Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPI 130-65 Series	12.7±0.3	13.2±0.4	6.5 max	3.0±0.3	2.0±0.5	8	3.5	14.8

### Quantity Info.

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