



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

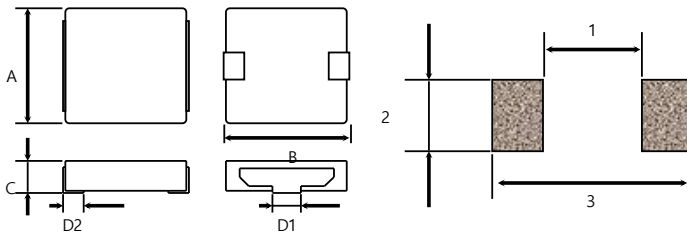
Molding Inductor - SPI Series(13mm)

Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-130-40-R47	0.47	1.8	2.0	45.0	30.0
SPI-130-40-R60	0.60	2.2	2.5	40.0	28.0
SPI-130-40-R68	0.68	2.6	3.3	38.0	26.0
SPI-130-40-R82	0.82	3.1	3.8	36.0	24.0
SPI-130-40-1R0	1.0	3.5	4.0	35.0	23.0
SPI-130-40-1R5	1.5	5.3	6.2	30.0	18.0
SPI-130-40-1R8	1.8	5.8	7.3	29.5	17.0
SPI-130-40-2R2	2.2	6.1	8.0	29.0	16.0
SPI-130-40-3R3	3.3	12.0	13.5	25.0	11.0
SPI-130-40-4R7	4.7	15.0	17.0	20.0	9.0
SPI-130-40-5R6	5.6	20.0	22.0	19.0	8.5
SPI-130-40-6R8	6.8	25.0	28.0	18.0	8.0
SPI-130-40-8R2	8.2	34.0	38.0	16.0	7.5
SPI-130-40-100	10.0	38.0	42.0	14.0	6.0

SPI-130-50-R47	0.47	1.6	2.0	65.0	35.0
SPI-130-50-R82	0.82	2.0	2.6	53.0	30.0
SPI-130-50-1R0	1.0	2.3	2.9	50.0	28.0
SPI-130-50-1R5	1.5	3.7	4.1	42.0	23.0
SPI-130-50-1R8	1.8	4.2	4.9	40.0	21.0
SPI-130-50-2R2	2.2	4.6	5.5	32.0	20.0
SPI-130-50-3R3	3.3	8.4	9.2	32.0	13.0
SPI-130-50-4R7	4.7	10.1	15.0	27.0	12.0
SPI-130-50-5R6	5.6	15.0	16.5	22.0	11.5
SPI-130-50-6R8	6.8	15.4	18.5	21.0	11.0
SPI-130-50-8R2	8.2	18.9	22.5	18.0	9.0
SPI-130-50-100	10.0	27.5	32.0	16.0	7.5
SPI-130-50-150	15.0	42.0	46.0	9.5	6.0
SPI-130-50-220	22.0	50.5	55.0	9.0	5.5
SPI-130-50-330	33.0	92.0	110.0	7.5	4.0
SPI-130-50-470	47.0	120.0	130.0	6.5	2.5

Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPI 130-40 Series	12.7±0.3	13.2±0.4	4.0 max	3.0±0.3	2.0±0.5	8	3.5	14.8
SPI 130-50 Series	12.7±0.3	13.2±0.4	5.0 max	3.0±0.3	2.0±0.5	8	3.5	14.8

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

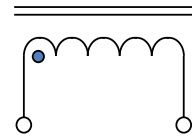
Identification

SPI-130-50-1R0

- ① ② ③ ④

- ① Product name, SMD Power Inductor
- ② Dimension Width, mm
- ③ Dimension Height, mm
- ④ Inductance, 1R0 = 1.0μH

Electrical Schematic



Quantity Info.

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