



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(8mm)

Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-080-40-R24	0.24	1.5	1.8	24.0	24.0
SPI-080-40-2R2	2.2	7.7	9.0	23.0	11.0
SPI-080-40-3R3	3.3	13.5	15.5	20.0	9.0
SPI-080-40-4R7	4.7	18.3	21.3	15.0	8.0
SPI-080-40-5R6	5.6	25.5	29.3	13.0	7.0
SPI-080-40-6R8	6.8	35.9	40.0	11.0	6.0
SPI-080-40-8R2	8.2	38.7	44.0	10.0	5.5
SPI-080-40-100	10.0	44.8	49.6	9.0	4.3
SPI-080-40-150	15.0	72.0	85.0	6.0	4.3
SPI-080-40-470	47.0	245.5	260.0	3.3	2.3
SPIP-080-65-2R2	2.2	6.9	8.0	12.0	10.5
SPIP-080-65-6R8	6.8	24.0	27.7	10.0	7.5
SPIP-080-65-470	47.0	159.0	170.0	3.5	3.0

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

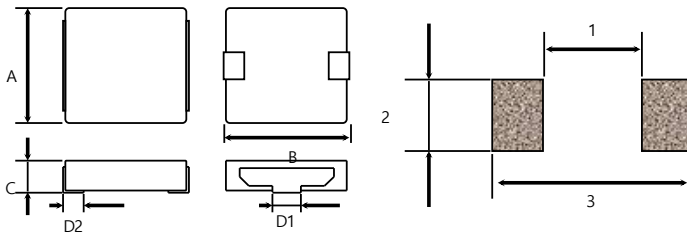
Identification

SPI-080-40-4R7

- ① ② ③ ④

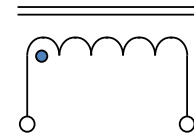
- ① Product name, SMD Power Inductor
- ② Dimension Width, mm
- ③ Dimension Height, mm
- ④ Inductance, R10 = 0.10uH

Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPI 080-40 Series	8.1±0.2	8.64±0.3	4.0 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4
SPI 080-65 Series	8.1±0.2	8.64±0.3	6.5 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4

Electrical Schematic



Quantity Info.

- § SPI 080-40 series : 500pcs / Reel
- § SPI 080-65 series : 500pcs / Reel