



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(7mm)

Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPI-070-24-R47	0.47	6.0	7.5	21.0	13.5
SPI-070-24-R68	0.68	7.5	9.4	16.0	11.0
SPI-070-24-1R0	1.0	11.0	14.2	14.0	9.0
SPI-070-24-1R5	1.5	12.0	16.0	13.5	8.0
SPI-070-24-2R2	2.2	25.0	34.0	11.0	6.5
SPI-070-24-3R3	3.3	48.0	51.6	8.0	5.5
SPI-070-24-4R7	4.7	55.0	63.0	6.5	4.5
SPI-070-24-6R8	6.8	70.0	95.0	5.0	3.5
SPI-070-24-8R2	8.2	84.6	106.0	4.5	3.0
SPI-070-24-100	10.0	102.0	129.0	4.0	2.5

SPI-070-30-R22	0.22	2.4	3.5	27.0	24.0
SPI-070-30-R47	0.47	3.4	3.7	19.0	15.0
SPI-070-30-R68	0.68	4.7	5.5	19.0	13.0
SPI-070-30-R82	0.82	6.6	7.3	18.0	10.5
SPI-070-30-1R0	1.0	7.1	8.5	15.0	9.5
SPI-070-30-1R5	1.5	10.7	15.0	14.5	9.0
SPI-070-30-2R2	2.2	13.9	15.3	14.0	8.0
SPI-070-30-3R3	3.3	28.0	30.0	11.0	6.0
SPI-070-30-4R7	4.7	38.8	42.7	6.5	5.0
SPI-070-30-6R8	6.8	48.9	53.8	6.5	4.5
SPI-070-30-100	10.0	64.0	71.2	5.0	3.5
SPI-070-30-150	15.0	100.0	123.0	4.0	3.0
SPI-070-30-220	22.0	125.0	135.0	2.5	2.9

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

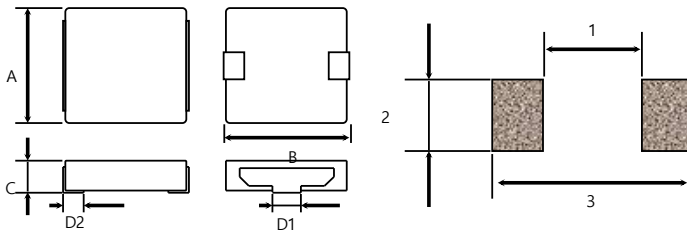
Identification

SPI-070-30-4R7

① ② ③ ④

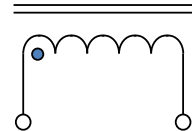
- ① Product name, SMD Power Inductor
- ② Dimension Width, mm
- ③ Dimension Height, mm
- ④ Inductance, R10 = 0.10uH

Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPI 070-24 Series	6.6±0.2	7.0±0.3	2.4 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4
SPI 070-30 Series	6.6±0.2	7.0±0.3	3.0 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4

Electrical Schematic



Quantity Info.

- § SPI 070-24 series : 1,500pcs / Reel
- § SPI 070-30 series : 1,000pcs / Reel