



### 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 - SPIP Series(7mm)

### Electrical Specifications

Part Number	Inductance (μH)	DCR (Typical, mΩ)	DCR (Max, mΩ)	Saturation Rated Current (Typical, A)	Temperature Rise Current (Typical, A)
SPIP-070-40-1R5	1.5	8.0	11.0	11.0	12.0
SPIP-070-40-2R2	2.2	12.0	16.0	9.0	10.0
SPIP-070-40-3R3	3.3	20.0	25.0	7.0	8.0
SPIP-070-40-4R7	4.7	28.0	35.0	6.0	6.0
SPIP-070-40-6R8	6.8	31.0	38.0	5.0	5.5
SPIP-070-40-8R2	8.2	53.0	60.0	4.0	4.5
SPIP-070-40-100	10.0	59.0	65.0	3.0	4.0
SPIP-070-40-150	15.0	74.0	81.0	2.0	3.0
SPIP-070-40-220	22.0	123.0	135.0	3.0	3.0

SPIP-070-60-1R0	1.0	5.0	6.8	13.0	11.0
SPIP-070-60-4R7	4.7	22.0	28.0	7.0	6.5
SPIP-070-60-6R8	6.8	26.0	28.0	8.0	5.5
SPIP-070-60-8R2	8.2	34.5	38.0	7.0	5.2
SPIP-070-60-100	10.0	38.7	42.3	6.5	5.0
SPIP-070-60-150	15.0	50.4	52.0	5.0	4.1

### 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

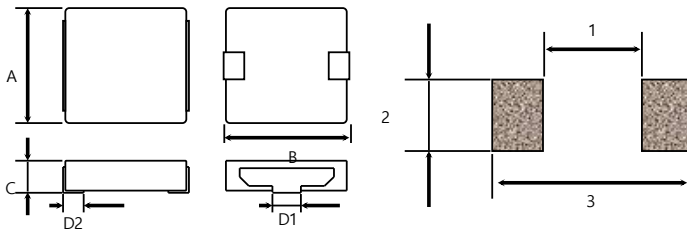
### Identification

#### SPI-070-30-4R7

① ② ③ ④

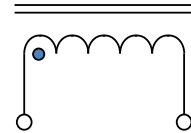
- ① Product name, SMD Power Inductor
- ② Dimension Width, mm
- ③ Dimension Height, mm
- ④ Inductance, R10 = 0.10uH

### Product Dimensions



Series No.	A	B	C	D1	D2	1	2	3
SPIP 070-40 Series	6.6±0.2	7.0±0.3	4.0 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4
SPIP 070-60 Series	6.6±0.2	7.0±0.3	6.0 max	3.0±0.2	1.27±0.3	3.8	3.5	7.4

### Electrical Schematic



### Quantity Info.

- § SPI 070-40 series : 500pcs / Reel
- § SPI 070-60 series : 500pcs / Reel