

## New Product

**SURFACE MOUNT  
SHIELDED POWER INDUCTOR  
SERIES SDD3118**

### FEATURES

- RoHS compliant
- High current handling capacity in a shielded package
- Easy to use in any design
- Ideal for use in laptops, communication systems and MP3 players

### ELECTRICAL SPECIFICATIONS

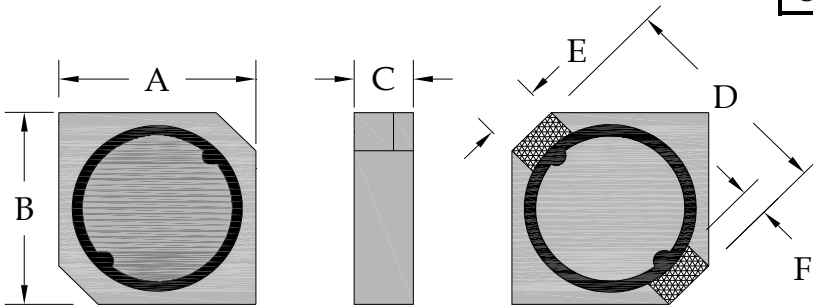
- Inductance range 1uH to 100uH
- Test condition (1uH - 8.2uH) 100kHz @ 0.25Vrms
- Test condition (10uH - 100uH) 1kHz @ 0.25Vrms
- Test equipment Quadtech 1750 LCR Meter

### PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 3500 pieces per reel
- Tape & reel spec. Tape 12 mm embossed carrier  
Reel 330 mm

### Dimensions in millimeters

- Length A 3.1± 0.3
- Width B 3.1± 0.3
- Height C 1.8± 0.2
- D 3.6 ref
- Term width E 1.3 ref
- Term length F 0.6 ref

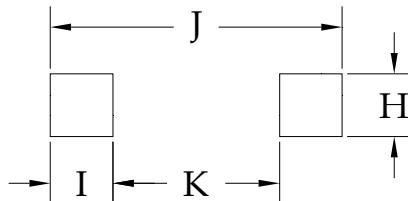


### SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)
SDD3118-1R0M	1.0	20	0.055	1.69
SDD3118-2R2M	2.2	20	0.13	1.22
SDD3118-2R7M	2.7	20	0.16	1.08
SDD3118-3R3M	3.3	20	0.19	0.99
SDD3118-3R9M	3.9	20	0.25	0.85
SDD3118-4R7M	4.7	20	0.28	0.80
SDD3118-5R6M	5.6	20	0.29	0.78
SDD3118-6R8M	6.8	20	0.36	0.70
SDD3118-8R2M	8.2	20	0.43	0.65
SDD3118-100M	10	20	0.55	0.51
SDD3118-120M	12	20	0.66	0.48
SDD3118-150M	15	20	0.82	0.47
SDD3118-180M	18	20	1.07	0.41
SDD3118-220M	22	20	1.21	0.36
SDD3118-270M	27	20	1.51	0.31
SDD3118-330M	33	20	2.01	0.28
SDD3118-390M	39	20	2.27	0.26
SDD3118-470M	47	20	2.54	0.24
SDD3118-560M	56	20	3.34	0.22
SDD3118-680M	68	20	3.67	0.20
SDD3118-820M	82	20	4.18	0.19
SDD3118-101M	100	20	5.14	0.16

### Suggested PCB land pattern

- H = 0.9
- I = 0.9
- J = 4.0
- K = 2.2



#### Notes:

1. Based on ΔL of 30% max or ΔT of 40°C max, whichever occurs first
2. All test data based on 25°C ambient. Part temperature (max ambient + temp rise) must not exceed 105°C under worst case operating conditions. Circuit design, other components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature.