

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDRH3818, 5018 SERIES

### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.7A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

### OPTIONS:

- Packaging:Tape & Reel is standard (Qty:2500pcs)  
Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

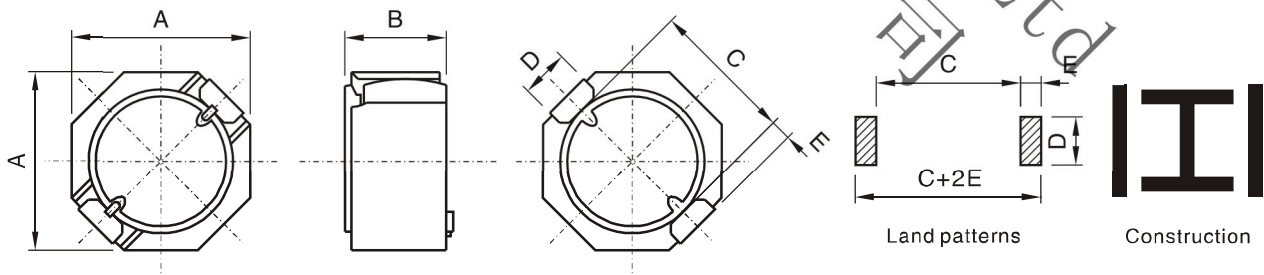
### ELECTRICAL CHARACTERISTICS

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH3818-1R0M	1.0	100	0.030	1.80
SDRH3818-2R2M	2.2	100	0.058	1.50
SDRH3818-3R3M	3.3	100	0.064	1.30
SDRH3818-4R7M	4.7	100	0.146	1.10
SDRH3818-5R6M	5.6	100	0.176	0.95
SDRH3818-6R8M	6.8	100	0.238	0.90
SDRH3818-8R2M	8.2	100	0.272	0.80
SDRH3818-100M	10	1	0.299	0.70
SDRH3818-150M	15	1	0.472	0.61
SDRH3818-220M	22	1	0.592	0.52
SDRH3818-270M	27	1	0.630	0.44
SDRH3818-330M	33	1	1.075	0.43
SDRH3818-470M	47	1	1.309	0.34
SDRH3818-680M	68	1	2.613	0.25
SDRH3818-820M	82	1	2.950	0.20
SDRH3818-101M	100	1	3.255	0.19
SDRH3818-151M	150	1	3.500	0.12

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH5018-1R2M	1.2	100	0.054	1.80
SDRH5018-1R8M	1.8	100	0.065	1.60
SDRH5018-2R3M	2.3	100	0.076	1.50
SDRH5018-3R6M	3.6	100	0.097	1.20
SDRH5018-4R3M	4.3	100	0.100	1.10
SDRH5018-5R1M	5.1	100	0.130	1.00
SDRH5018-6R8M	6.8	100	0.150	0.94
SDRH5018-100M	10	100	0.220	0.80
SDRH5018-150M	15	100	0.325	0.64
SDRH5018-180M	18	100	0.380	0.56
SDRH5018-220M	22	100	0.540	0.49
SDRH5018-330M	33	100	0.770	0.41
SDRH5018-470M	47	100	1.120	0.33

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

### PHYSICAL CHARACTERISTICS & TECHNICAL INFORMATION



DIMENSIONS IN:mm

Part number	A	B	C	D	E	C+2E
SDRH3818	3.85 ± 0.3	1.8Max	3.2	1.6	0.5	4.2
SDRH5018	5.20Max	3.0Max	4.2 ± 0.5	1.4 ± 0.5	0.6 ± 0.3	5.4

- Inductor Testing: HP4284A (Equivalent acceptable)
  - DCR:QuadTech 1880 Milliohmmer Q- HP4342A – SRF-HP4191A IDCMax
  - Current is decreased 10% against its initial value
  - Operating temperature: -40°C to +105°C
  - Storage temperature: -40°C to +105°C
  - Solder methods: Vapor Phase,Infrared Reflow
  - Resistance to soldering heat:260°C for 10 seconds
  - Solvent resistance: Conforms to MIL-STD-202E
  - Marking: Inductance & Tolerance
- Note:All specifications subject to change without notice.