



# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDRH105 SERIES

### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.45A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

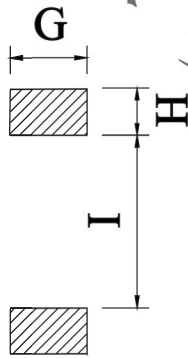
### OPTIONS:

- Packaging: Tape & Reel is standard (Qty:2000pcs)
- Bulk packaging available for smaller quantities
- Tolerance: 10% and 5% is standard, tighter tolerances available

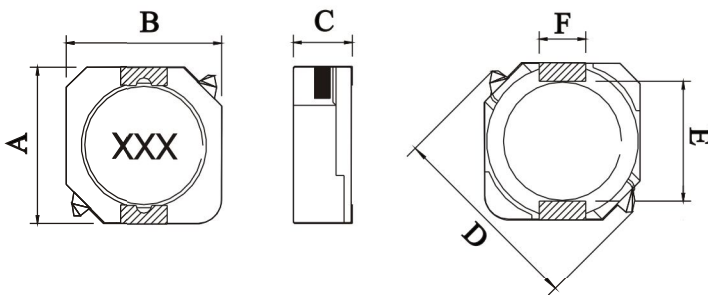
### COMMON APPLICATIONS:

- 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

### PHYSICAL CHARACTERISTICS:



### LAND PATTERNS



### DIMENSIONS IN:mm

Part number	A	B	C	D	E	F	G	H	I
SDRH105	10.3Max	10.4Max	5.0Max	13.5Max	7.7	3.0	3.6	1.7	7.3

### ELECTRICAL CHARACTERISTICS:

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH105-100M	10	100	0.0258	3.45
SDRH105-120M	12	100	0.0320	3.40
SDRH105-150M	15	100	0.0400	2.83
SDRH105-180M	18	100	0.0460	2.62
SDRH105-220M	22	100	0.0585	2.44
SDRH105-270M	27	100	0.0654	2.24
SDRH105-330M	33	100	0.0814	1.88
SDRH105-390M	39	100	0.1031	1.70
SDRH105-470M	47	100	0.1221	1.56
SDRH105-560M	56	100	0.1448	1.39
SDRH105-680M	68	100	0.1930	1.36
SDRH105-820M	82	100	0.2194	1.20
SDRH105-101M	100	100	0.2470	1.09
SDRH105-121M	120	100	0.2984	1.00
SDRH105-151M	150	100	0.3551	0.91
SDRH105-181M	180	100	0.3943	0.84
SDRH105-221M	220	100	0.4838	0.75
SDRH105-271M	270	100	0.6325	0.68
SDRH105-331M	330	100	0.7800	0.60
SDRH105-391M	390	100	0.9575	0.57
SDRH105-471M	470	100	1.2204	0.50
SDRH105-561M	560	100	1.3524	0.47
SDRH105-681M	680	100	1.5192	0.43
SDRH105-821M	820	100	1.6944	0.39
SDRH105-102M	1000	100	1.9464	0.35

Note: 1. K = ± 10%, M = ± 20%, N = ± 30%

### TECHNICAL INFORMATION:

- Inductance Testing: HP4284A, HP4285A or equivalent
- RDC: QuadTech 1880 Milliohm meter
- Q- HP4342A
- SRF- HP4191A or HP4194A
- Rated Current L value drop 10% typ. at I<sub>DC</sub> against its initial value
- Temperature rise 40°C Max
- Reference ambient temperature
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave, Reflow
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength: 24.5N Min
- Moisture resistance:
  - ΔL/L ≤ ± 10%
  - ΔQ/Q ≤ ± 25%