

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDRH12565-12575 SERIES

### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 6.2A
- 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:

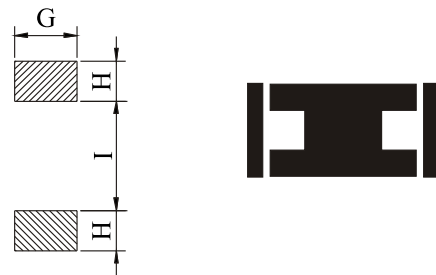
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

### ELECTRICAL CHARACTERISTICS

Part Number	L (μH)	Test Freq (kHz)	DCR Ω Max	IDC Max A
SDRH12565-2R2N	2.2	1	0.014	6.20
SDRH12565-4R2N	4.2	1	0.018	5.50
SDRH12565-7R0N	7.0	1	0.022	5.00
SDRH12565-100M	10	1	0.025	4.80
SDRH12565-150M	15	1	0.029	4.40
SDRH12565-220M	22	1	0.038	3.80
SDRH12565-330M	33	1	0.049	3.40
SDRH12565-470M	47	1	0.070	2.80
SDRH12565-680M	68	1	0.095	2.40
SDRH12565-101M	100	1	0.150	1.90
SDRH12565-151M	150	1	0.260	1.40
SDRH12565-221M	220	1	0.330	1.20
SDRH12565-331M	330	1	0.600	0.95
SDRH12575-1R2N	1.2	1	0.009	8.20
SDRH12575-2R7N	2.7	1	0.012	7.00
SDRH12575-3R9N	3.9	1	0.013	6.70
SDRH12575-5R6N	5.6	1	0.014	6.30
SDRH12575-6R8N	6.8	1	0.016	5.90
SDRH12575-100M	10	1	0.019	5.40
SDRH12575-150M	15	1	0.023	5.00
SDRH12575-220M	22	1	0.032	4.00
SDRH12575-330M	33	1	0.048	3.20
SDRH12575-470M	47	1	0.064	2.70
SDRH12575-680M	68	1	0.094	2.00
SDRH12575-101M	100	1	0.150	1.90
SDRH12575-151M	150	1	0.210	1.50
SDRH12575-221M	220	1	0.310	1.30
SDRH12575-331M	330	1	0.410	1.00

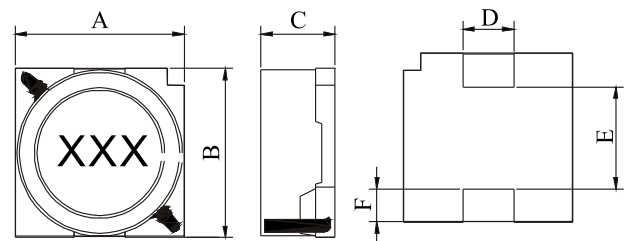
Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

### PHYSICAL CHARACTERISTICS



LAND PATTERNS

CONSTRUCTION



### TECHNICAL INFORMATION

#### DIMENSIONS IN:mm

Part number	A	B	C	D	E	F	G	H	I
SDRH12565	12.8Max	12.8Max	6.8Max	3.0	8.6	2.0	3.8	2.5	8.5
SDRH12575	12.8Max	12.8Max	7.8Max	3.0	8.6	2.0	3.8	2.5	8.5

- Inductor Testing: HP4284A (Equivalent acceptable)
  - DCR:QuadTech 1880 Milliohmeter
  - 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.