

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:

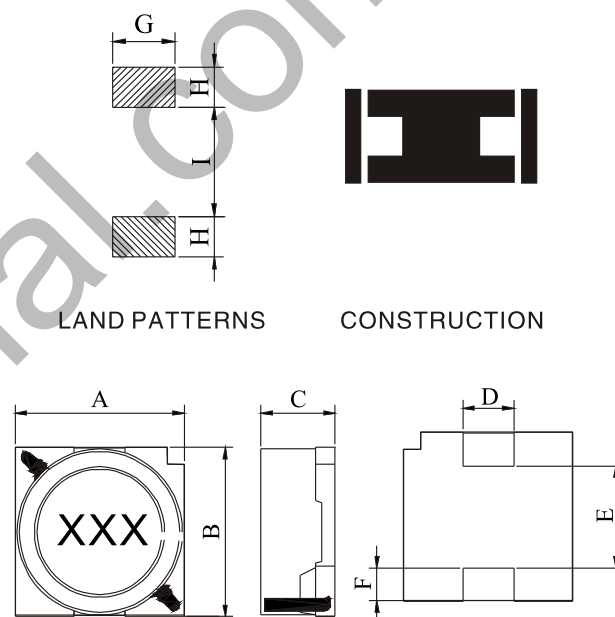
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

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



TECHNICAL INFORMATION

- 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.

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 |