

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDRH103-104 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:2000pcs)
- Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

COMMON APPLICATIONS:

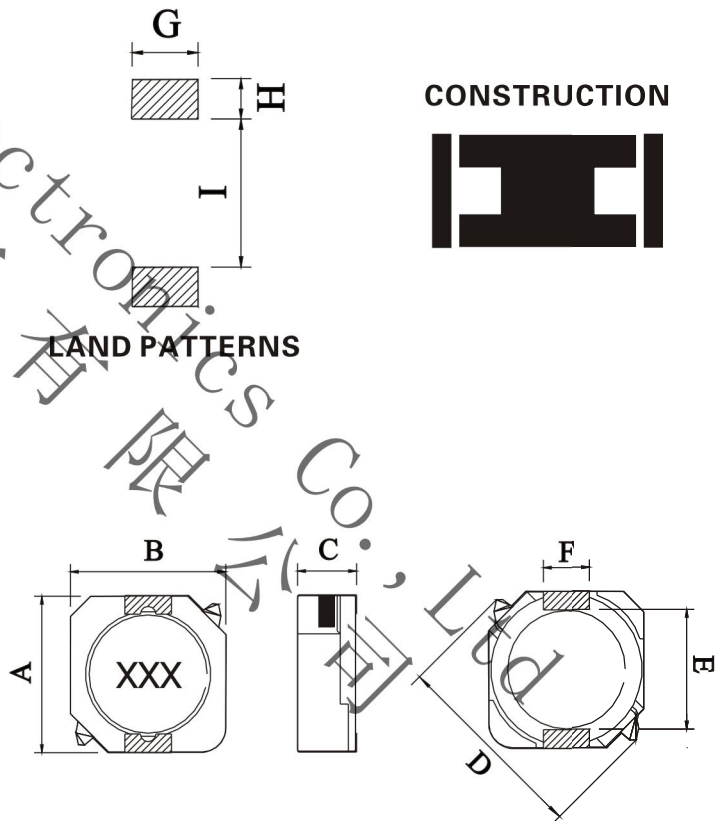
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

ELECTRICAL CHARACTERISTICS:

| Part Number | L (μH) | Test Freq (kHz) | DCR Ω Max | IDC Max A |
|--------------|--------|-----------------|-----------|-----------|
| SDRH103-100M | 10 | 100 | 0.0581 | 2.70 |
| SDRH103-120M | 12 | 100 | 0.0721 | 2.25 |
| SDRH103-150M | 15 | 100 | 0.0865 | 2.22 |
| SDRH103-180M | 18 | 100 | 0.1161 | 1.90 |
| SDRH103-220M | 22 | 100 | 0.1454 | 1.78 |
| SDRH103-270M | 27 | 100 | 0.1759 | 1.63 |
| SDRH103-330M | 33 | 100 | 0.2154 | 1.46 |
| SDRH103-390M | 39 | 100 | 0.2688 | 1.32 |
| SDRH103-470M | 47 | 100 | 0.2986 | 1.18 |
| SDRH103-560M | 56 | 100 | 0.3358 | 1.10 |
| SDRH103-680M | 68 | 100 | 0.4513 | 1.04 |
| SDRH103-820M | 82 | 100 | 0.5138 | 0.94 |
| SDRH103-101M | 100 | 100 | 0.7000 | 0.84 |
| SDRH103-121M | 120 | 100 | 0.7650 | 0.76 |
| SDRH103-151M | 150 | 100 | 0.8763 | 0.70 |
| SDRH104-1R3N | 1.3 | 100 | 0.008 | 10.0 |
| SDRH104-2R5N | 2.5 | 100 | 0.010 | 7.50 |
| SDRH104-3R8N | 3.8 | 100 | 0.013 | 6.00 |
| SDRH104-5R2N | 5.2 | 100 | 0.022 | 5.50 |
| SDRH104-7R0N | 7.0 | 100 | 0.027 | 4.80 |
| SDRH104-100M | 10 | 100 | 0.035 | 4.40 |
| SDRH104-150M | 15 | 100 | 0.050 | 3.60 |
| SDRH104-220M | 22 | 100 | 0.073 | 2.90 |
| SDRH104-330M | 33 | 100 | 0.093 | 2.30 |
| SDRH104-470M | 47 | 100 | 0.128 | 2.10 |
| SDRH104-680M | 68 | 100 | 0.213 | 1.50 |
| SDRH104-101M | 100 | 100 | 0.304 | 1.35 |
| SDRH104-151M | 150 | 100 | 0.506 | 1.15 |
| SDRH104-221M | 220 | 100 | 0.756 | 0.92 |
| SDRH104-331M | 330 | 100 | 1.090 | 0.70 |

Note:1. K= ± 10%, M= ± 20%, N= ± 30%

PHYSICAL CHARACTERISTICS:



TECHNICAL INFORMATION:

- Inductor Testing: HP4284A (Equivalent acceptable)
 - DCR:QuadTech 1880 Milliohm-meter
 - 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 |
|-------------|---------|---------|--------|---------|-----|-----|-----|-----|-----|
| SDRH103 | 10.3Max | 10.4Max | 3.0Max | 13.5Max | 7.7 | 3.0 | 3.6 | 1.7 | 7.3 |
| SDRH104 | 10.3Max | 10.4Max | 4.0Max | 13.5Max | 7.7 | 3.0 | 3.6 | 1.7 | 7.3 |