

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDRH6025-6028 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:

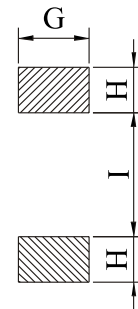
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

### ELECTRICAL CHARACTERISTICS

| Part Number   | L (μH) | Test Freq (kHz) | DCR Ω Max | IDC Max A |
|---------------|--------|-----------------|-----------|-----------|
| SDRH6025-1R0N | 1.0    | 100             | 0.016     | 2.70      |
| SDRH6025-2R7N | 2.7    | 100             | 0.022     | 1.80      |
| SDRH6025-4R7N | 4.7    | 100             | 0.037     | 1.50      |
| SDRH6025-6R8N | 6.8    | 100             | 0.054     | 1.30      |
| SDRH6025-100M | 10     | 100             | 0.069     | 1.00      |
| SDRH6025-150M | 15     | 100             | 0.102     | 0.88      |
| SDRH6025-220M | 22     | 100             | 0.147     | 0.73      |
| SDRH6025-330K | 33     | 100             | 0.216     | 0.59      |
| SDRH6025-470M | 47     | 100             | 0.288     | 0.48      |
| SDRH6025-680K | 68     | 100             | 0.444     | 0.42      |
| SDRH6025-101M | 100    | 100             | 0.600     | 0.33      |
| SDRH6028-4R7N | 4.7    | 1               | 0.035     | 1.60      |
| SDRH6028-6R8N | 6.8    | 1               | 0.043     | 1.50      |
| SDRH6028-100M | 10     | 1               | 0.064     | 1.30      |
| SDRH6028-150M | 15     | 1               | 0.090     | 1.00      |
| SDRH6028-220M | 22     | 1               | 0.125     | 0.77      |
| SDRH6028-330K | 33     | 1               | 0.178     | 0.69      |
| SDRH6028-470M | 47     | 1               | 0.252     | 0.59      |
| SDRH6028-680K | 68     | 1               | 0.348     | 0.50      |
| SDRH6028-101M | 100    | 1               | 0.516     | 0.42      |

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

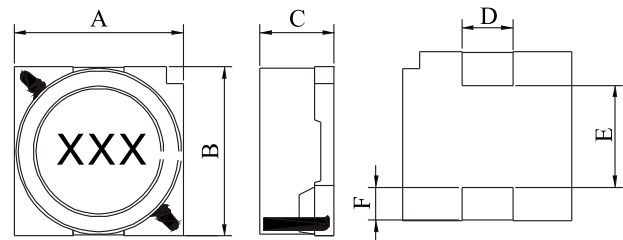
### PHYSICAL CHARACTERISTICS



LAND PATTERNS



CONSTRUCTION



### TECHNICAL INFORMATION

- Inductor Testing: HP4284A (Equivalent acceptable)  
DCR: QuadTech 1880 Milliohm meter  
Q- HP4342A - SRF-HP4191A  
IDC Max 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   |
|-------------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| SDRH6025    | 6.3Max | 6.3Max | 2.8Max | 2.0 | 4.0 | 1.2 | 2.8 | 2.0 | 2.0 |
| SDRH6028    | 6.3Max | 6.3Max | 3.1Max | 2.0 | 4.0 | 1.2 | 2.8 | 2.0 | 2.0 |