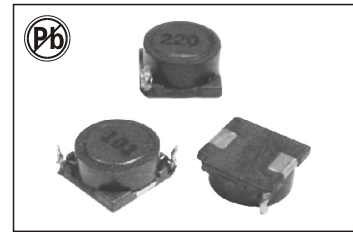


# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDRH10145-12555 SERIES



### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.7A
- 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:

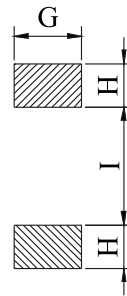
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

## ELECTRICAL CHARACTERISTICS

| Part Number    | L (μH) | Test Freq (kHz) | DCR Ω Max | IDC Max A |
|----------------|--------|-----------------|-----------|-----------|
| SDRH10145-3R3N | 3.3    | 1               | 0.020     | 3.70      |
| SDRH10145-5R6N | 5.6    | 1               | 0.027     | 3.20      |
| SDRH10145-100M | 10     | 1               | 0.044     | 2.50      |
| SDRH10145-150M | 15     | 1               | 0.057     | 2.20      |
| SDRH10145-220M | 22     | 1               | 0.070     | 1.90      |
| SDRH10145-330K | 33     | 1               | 0.100     | 1.70      |
| SDRH10145-470M | 47     | 1               | 0.120     | 1.50      |
| SDRH10145-680M | 68     | 1               | 0.168     | 1.30      |
| SDRH10145-101M | 100    | 1               | 0.240     | 1.10      |
| SDRH10145-151M | 150    | 1               | 0.420     | 0.81      |
| SDRH10145-221M | 220    | 1               | 0.564     | 0.70      |
| SDRH10145-331M | 330    | 1               | 0.816     | 0.58      |
| SDRH10145-471M | 470    | 1               | 1.236     | 0.47      |
| SDRH10145-681M | 680    | 1               | 1.920     | 0.38      |
| SDRH10145-102M | 1000   | 1               | 3.360     | 0.29      |
| SDRH10145-122M | 1200   | 1               | 3.600     | 0.25      |
| SDRH10145-152M | 1500   | 1               | 4.080     | 0.22      |
| SDRH12555-6R0N | 6.0    | 1               | 0.020     | 3.60      |
| SDRH12555-100M | 10     | 1               | 0.026     | 3.40      |
| SDRH12555-150M | 15     | 1               | 0.032     | 2.80      |
| SDRH12555-220M | 22     | 1               | 0.041     | 2.30      |
| SDRH12555-330M | 33     | 1               | 0.050     | 1.90      |
| SDRH12555-470M | 47     | 1               | 0.075     | 1.60      |
| SDRH12555-680M | 68     | 1               | 0.100     | 1.30      |
| SDRH12555-101M | 100    | 1               | 0.150     | 1.10      |
| SDRH12555-151M | 150    | 1               | 0.230     | 0.88      |
| SDRH12555-221M | 220    | 1               | 0.330     | 0.72      |
| SDRH12555-331M | 330    | 1               | 0.492     | 0.59      |
| SDRH12555-471M | 470    | 1               | 0.624     | 0.49      |
| SDRH12555-681M | 680    | 1               | 0.912     | 0.43      |
| SDRH12555-102M | 1000   | 1               | 1.344     | 0.34      |
| SDRH12555-152M | 1500   | 1               | 2.076     | 0.29      |

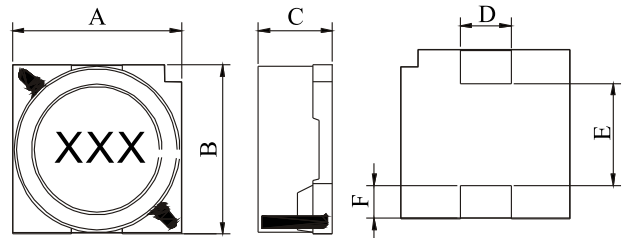
Note:1. K=±10%,M=±20%,N=±30%

## PHYSICAL CHARACTERISTICS



LAND PATTERNS

CONSTRUCTION



## TECHNICAL INFORMATION

- Inductor Testing: HP4284A (Equivalent acceptable)  
DCR:QuadTech 1880 Milliohm-meter  
Q- HP4342A - SRF-HP4191A  
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   |
|-------------|---------|---------|--------|-----|-----|-----|-----|-----|-----|
| SDRH10145   | 10.4Max | 10.4Max | 4.8Max | 3.0 | 6.0 | 2.0 | 3.8 | 2.5 | 5.8 |
| SDRH12555   | 12.8Max | 12.8Max | 5.8Max | 3.0 | 8.6 | 2.0 | 3.8 | 2.5 | 8.5 |