



SDRH5020-5028 SERIES

Magnetic Shielded SMD Power Inductors

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
- Lower tolerances available

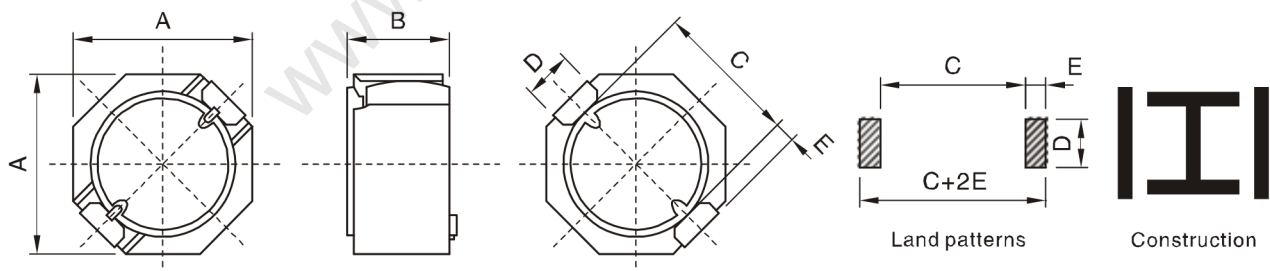
APPLICATIONS

- 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

| Part Number | L μ H | Test Freq. KHz | DCR Ohm Max. | IDC Max. A |
|---------------|-----------|----------------|--------------|------------|
| SDRH5020-1R2M | 1.2 | 100 | 0.044 | 2.15 |
| SDRH5020-2R2M | 2.2 | 100 | 0.059 | 1.63 |
| SDRH5020-3R3M | 3.3 | 100 | 0.062 | 1.50 |
| SDRH5020-4R7M | 4.7 | 100 | 0.087 | 1.14 |
| SDRH5020-6R8M | 6.8 | 100 | 0.105 | 0.95 |
| SDRH5020-8R2M | 8.2 | 100 | 0.139 | 0.90 |
| SDRH5020-100M | 10 | 1 | 0.150 | 0.76 |
| SDRH5020-150M | 15 | 1 | 0.210 | 0.63 |
| SDRH5020-220M | 22 | 1 | 0.275 | 0.56 |
| SDRH5020-330M | 33 | 1 | 0.455 | 0.44 |
| SDRH5020-470M | 47 | 1 | 0.730 | 0.35 |
| SDRH5020-680M | 68 | 1 | 0.935 | 0.30 |
| SDRH5020-101M | 100 | 1 | 1.500 | 0.23 |
| SDRH5020-121M | 120 | 1 | 1.910 | 0.22 |
| SDRH5020-151M | 150 | 1 | 2.680 | 0.21 |
| SDRH5020-181M | 180 | 1 | 3.040 | 0.20 |
| SDRH5020-221M | 220 | 1 | 3.520 | 0.195 |
| SDRH5020-271M | 270 | 1 | 4.380 | 0.193 |
| SDRH5020-331M | 330 | 1 | 5.560 | 0.190 |
| SDRH5020-471M | 470 | 1 | 7.820 | 0.180 |

| Part Number | L μ H | Test Freq. KHz | DCR Ohm Max. | IDC Max. A |
|---------------|-----------|----------------|--------------|------------|
| SDRH5028-1R0M | 1.0 | 100 | 0.015 | 4.00 |
| SDRH5028-2R2M | 2.2 | 100 | 0.029 | 2.41 |
| SDRH5028-3R3M | 3.3 | 100 | 0.034 | 2.36 |
| SDRH5028-4R7M | 4.7 | 100 | 0.045 | 1.87 |
| SDRH5028-5R6M | 5.6 | 100 | 0.052 | 1.60 |
| SDRH5028-6R8M | 6.8 | 100 | 0.068 | 1.51 |
| SDRH5028-100M | 10 | 1 | 0.090 | 1.33 |
| SDRH5028-150M | 15 | 1 | 0.142 | 1.05 |
| SDRH5028-220M | 22 | 1 | 0.208 | 0.86 |
| SDRH5028-330M | 33 | 1 | 0.257 | 0.72 |
| SDRH5028-470M | 47 | 1 | 0.352 | 0.62 |
| SDRH5028-680M | 68 | 1 | 0.525 | 0.51 |
| SDRH5028-101M | 100 | 1 | 0.801 | 0.43 |
| SDRH5028-121M | 120 | 1 | 0.850 | 0.34 |
| SDRH5028-151M | 150 | 1 | 1.100 | 0.26 |
| SDRH5028-181M | 180 | 1 | 1.190 | 0.24 |
| SDRH5028-221M | 220 | 1 | 1.530 | 0.20 |

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



DIMENSIONS IN:mm

| Part number | A | B | C | D | E | C+2E |
|-------------|----------------|--------|-----|-----|-----|------|
| SDRH5020 | 5.00 \pm 0.3 | 2.0Max | 4.2 | 1.6 | 0.6 | 5.4 |
| SDRH5028 | 5.30 \pm 0.3 | 2.8Max | 4.2 | 1.6 | 0.6 | 5.4 |

- 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.