

# SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR62LCB-62CB SERIES

### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.5A
- 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:

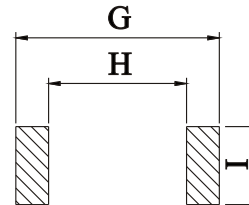
| Part Number   | L (μH) | Test Freq (kHz) | DCR Ω Max | IDC Max A |
|---------------|--------|-----------------|-----------|-----------|
| SDR62LCB-1R2M | 1.2    | 100             | 0.0298    | 3.50      |
| SDR62LCB-1R5M | 1.5    | 100             | 0.0423    | 2.94      |
| SDR62LCB-2R0M | 2.0    | 100             | 0.0456    | 2.47      |
| SDR62LCB-3R3M | 3.3    | 100             | 0.0680    | 1.99      |
| SDR62LCB-4R7M | 4.7    | 100             | 0.0860    | 1.59      |
| SDR62LCB-6R2M | 6.2    | 100             | 0.1120    | 1.49      |
| SDR62LCB-8R2M | 8.2    | 100             | 0.1380    | 1.25      |
| SDR62LCB-100M | 10     | 100             | 0.1720    | 1.22      |
| SDR62LCB-120M | 12     | 100             | 0.1900    | 0.99      |
| SDR62LCB-150M | 15     | 100             | 0.2480    | 0.94      |
| SDR62LCB-180M | 18     | 100             | 0.2640    | 0.83      |
| SDR62LCB-220M | 22     | 100             | 0.3300    | 0.80      |
| SDR62LCB-270M | 27     | 100             | 0.3640    | 0.65      |
| SDR62LCB-330M | 33     | 100             | 0.5600    | 0.63      |
| SDR62LCB-390M | 39     | 100             | 0.5800    | 0.55      |
| SDR62LCB-470M | 47     | 100             | 0.6900    | 0.50      |
| SDR62CB-R82M  | 0.82   | 100             | 0.013     | 3.48      |
| SDR62CB-1R2M  | 1.2    | 100             | 0.018     | 2.83      |
| SDR62CB-1R8M  | 1.8    | 100             | 0.023     | 2.44      |
| SDR62CB-2R7M  | 2.7    | 100             | 0.033     | 1.89      |
| SDR62CB-3R3M  | 3.3    | 100             | 0.043     | 1.65      |
| SDR62CB-5R6M  | 5.6    | 100             | 0.057     | 1.37      |
| SDR62CB-100M  | 10     | 100             | 0.097     | 1.07      |
| SDR62CB-120M  | 12     | 100             | 0.116     | 0.97      |
| SDR62CB-150M  | 15     | 100             | 0.144     | 0.87      |
| SDR62CB-180M  | 18     | 100             | 0.163     | 0.79      |
| SDR62CB-220M  | 22     | 100             | 0.179     | 0.71      |
| SDR62CB-270M  | 27     | 100             | 0.246     | 0.64      |
| SDR62CB-330M  | 33     | 100             | 0.304     | 0.58      |
| SDR62CB-390M  | 39     | 100             | 0.341     | 0.53      |
| SDR62CB-470M  | 47     | 100             | 0.367     | 0.48      |
| SDR62CB-560M  | 56     | 100             | 0.438     | 0.44      |
| SDR62CB-680M  | 68     | 100             | 0.491     | 0.40      |
| SDR62CB-820M  | 82     | 100             | 0.596     | 0.36      |
| SDR62CB-101K  | 100    | 100             | 0.917     | 0.33      |

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION:

- Inductance Testing: HP4284A, HP4285A or equivalent
- RDC: QuadTech 1880 Milliohm meter
- Q- HP4342A
- SRF-HP4191A or HP4194A
- Rated Current L value drop 10% typ. at  $I_{DC}$  against its initial value
- Temperature rise 40°C Max Reference ambient temperature
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave, Reflow
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength: 24.5N Min
- Moisture resistance:  $\Delta L/L \leq \pm 10\%$   $\Delta Q/Q \leq \pm 25\%$

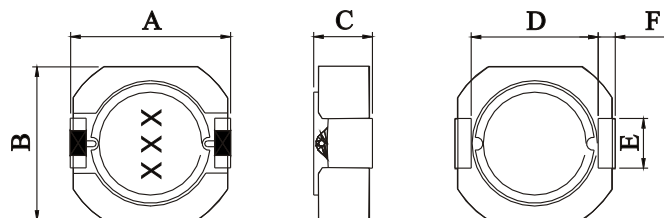
### PHYSICAL CHARACTERISTICS:



### CONSTRUCTION



### LAND PATTERNS



### DIMENSIONS IN:mm

| Part number | A      | B      | C      | D   | E   | F   | G   | H   | I   |
|-------------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| SDR62LCB    | 6.3Max | 6.2Max | 2.5Max | 4.8 | 2.0 | 0.6 | 6.6 | 4.6 | 2.6 |
| SDR62CB     | 6.3Max | 6.2Max | 2.0Max | 4.8 | 2.0 | 0.6 | 6.6 | 4.6 | 2.6 |

Note: All specifications subject to change without notice.