

# POWER SURFACE-MOUNT WIRE-WOUND CHIP INDUCTORS

## SDR1030T -1045T SERIES



### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 4.8A
- 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
- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

### ELECTRICAL CHARACTERISTICS:

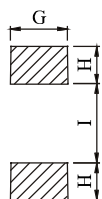
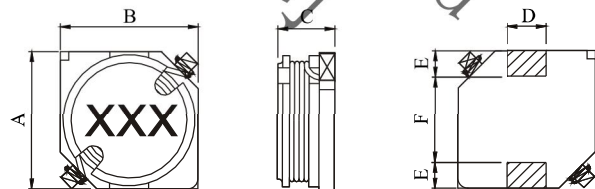
Part Number	L $\mu$ H (100KHz)	Q Typ	Test Freq Mhz	DCR $\Omega$ Max	IDC Max A	Part Number	L $\mu$ H (100KHz)	Q Typ	Test Freq Mhz	DCR $\Omega$ Max	IDC Max A
SDR-1030T-2R7M	2.7	13	7.96	0.028	3.00	SDR-1045T-2R7M	2.7	25	7.96	0.026	4.80
SDR-1030T-4R7M	4.7	13	7.96	0.040	2.60	SDR-1045T-4R5M	4.5	25	7.96	0.033	4.20
SDR-1030T-6R8M	6.8	15	7.96	0.052	2.20	SDR-1045T-6R8M	6.8	22	7.96	0.040	3.50
SDR-1030T-100M	10.0	15	2.52	0.064	2.00	SDR-1045T-100M	10.0	26	2.52	0.064	3.20
SDR-1030T-150M	15.0	18	2.52	0.100	1.65	SDR-1045T-150M	15.0	26	2.52	0.100	2.50
SDR-1030T-220M	22.0	20	2.52	0.145	1.38	SDR-1045T-220M	22.0	22	2.52	0.145	2.20
SDR-1030T-330M	33.0	16	2.52	0.220	1.10	SDR-1045T-330M	33.0	20	2.52	0.220	1.90
SDR-1030T-470M	47.0	10	2.52	0.270	0.96	SDR-1045T-470M	47.0	21	2.52	0.270	1.60
SDR-1030T-680M	68.0	12	2.52	0.360	0.82	SDR-1045T-680M	68.0	21	2.52	0.360	1.30
SDR-1030T-101K	100.0	14	0.796	0.540	0.70	SDR-1045T-101K	100.0	14	0.796	0.540	1.10
SDR-1030T-151K	150.0	23	0.796	0.700	0.60	SDR-1045T-151K	150.0	16	0.796	0.700	0.85
SDR-1030T-221K	220.0	23	0.796	1.150	0.46	SDR-1045T-221K	220.0	15	0.796	1.150	0.72
SDR-1030T-331K	330.0	25	0.796	1.700	0.38	SDR-1045T-331K	330.0	12	0.796	1.700	0.62
SDR-1030T-471K	470.0	20	0.796	2.250	0.26	SDR-1045T-471K	470.0	12	0.796	2.250	0.52
SDR-1030T-681K	680.0	18	0.796	3.300	0.23	SDR-1045T-681K	680.0	13	0.796	3.300	0.43
SDR-1030T-102K	1000.0	42	0.796	4.700	0.20	SDR-1045T-102K	1000.0	25	0.252	4.700	0.38

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

### 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.

### CHARACTERISTICS:



### CONSTRUCTION



DIMENSIONS IN: mm

Part Number	A	B	C	D	E	F	G	H	I
SDR-1030T	10.0 $\pm$ 0.3	10.0 $\pm$ 0.3	3.0 $\pm$ 0.3	2.4	2.0	6.0	2.8	2.4	5.6
SDR-1045T	10.0 $\pm$ 0.2	10.0 $\pm$ 0.3	4.5 $\pm$ 0.3	2.4	2.0	6.0	2.8	2.4	5.6