

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

SDR1045T SERIES

FEATURES:

- Unshielded 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

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



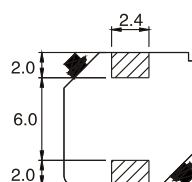
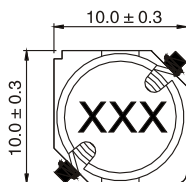
ELECTRICAL CHARACTERISTICS:

Part Number	L μ H (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR1045T-2R7□	2.7	25	7.96	0.026	4.80
SDR1045T-4R5□	4.5	25	7.96	0.033	4.20
SDR1045T-6R8□	6.8	22	7.96	0.040	3.50
SDR1045T-100□	10.0	26	2.52	0.064	3.20
SDR1045T-150□	15.0	26	2.52	0.100	2.50
SDR1045T-220□	22.0	22	2.52	0.145	2.20
SDR1045T-330□	33.0	20	2.52	0.220	1.90
SDR1045T-470□	47.0	21	2.52	0.270	1.60
SDR1045T-680□	68.0	21	2.52	0.360	1.30
SDR1045T-101□	100.0	14	0.796	0.540	1.10
SDR1045T-151□	150.0	16	0.796	0.700	0.85
SDR1045T-221□	220.0	15	0.796	1.150	0.72
SDR1045T-331□	330.0	12	0.796	1.700	0.62
SDR1045T-471□	470.0	12	0.796	2.250	0.52
SDR1045T-681□	680.0	13	0.796	3.300	0.43
SDR1045T-102□	1000.0	25	0.252	4.700	0.38

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

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

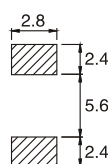
DIMENSIONS IN:mm



CONSTRUCTION



LAND PATTERNS



- 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 $+105^{\circ}\text{C}$
- Storage Temperature: -40°C to $+105^{\circ}\text{C}$
- 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.