



# POWER SURFACE-MOUNT WIRE-WOUND CHIP INDUCTORS

## SDR7030T-7045T SERIES

### FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 3.8A
- 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, 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:

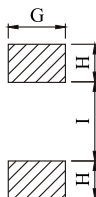
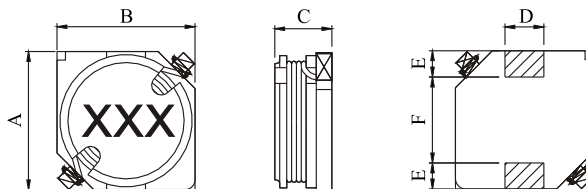
Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A	Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR-7030T-1R0M	1.0	18	7.96	0.022	3.00	SDR-7045T-1R0M	1.0	25	7.96	0.022	3.80
SDR-7030T-1R5M	1.5	17	7.96	0.027	2.75	SDR-7045T-1R5M	1.5	26	7.96	0.027	3.50
SDR-7030T-2R2M	2.2	17	7.96	0.030	2.60	SDR-7045T-2R2M	2.2	24	7.96	0.032	3.30
SDR-7030T-3R5M	3.5	17	7.96	0.038	2.20	SDR-7045T-3R3M	3.3	23	7.96	0.036	2.80
SDR-7030T-4R7M	4.7	14	7.96	0.048	1.85	SDR-7045T-4R7M	4.7	23	7.96	0.042	2.60
SDR-7030T-6R2M	6.2	17	7.96	0.058	1.65	SDR-7045T-6R8M	6.8	22	7.96	0.054	2.25
SDR-7030T-100M	10.0	16	2.52	0.075	1.50	SDR-7045T-100M	10.0	28	2.52	0.070	2.00
SDR-7030T-150M	15.0	14	2.52	0.115	1.20	SDR-7045T-150M	15.0	24	2.52	0.086	1.60
SDR-7030T-220M	22.0	14	2.52	0.160	1.02	SDR-7045T-220M	22.0	26	2.52	0.125	1.40
SDR-7030T-330M	33.0	13	2.52	0.230	0.85	SDR-7045T-330M	33.0	20	2.52	0.150	1.22
SDR-7030T-470K	47.0	12	2.52	0.340	0.70	SDR-7045T-470K	47.0	21	2.52	0.230	1.00
SDR-7030T-680K	68.0	12	2.52	0.480	0.58	SDR-7045T-680K	68.0	17	2.52	0.280	0.90
SDR-7030T-101K	100.0	18	0.796	0.720	0.46	SDR-7045T-101K	100.0	17	0.796	0.430	0.75
SDR-7030T-151K	150.0	18	0.796	0.920	0.40	SDR-7045T-151K	150.0	17	0.796	0.580	0.62
SDR-7030T-221K	220.0	23	0.796	1.600	0.32	SDR-7045T-221K	220.0	22	0.796	0.930	0.50
SDR-7030T-331K	330.0	24	0.796	2.200	0.26	SDR-7045T-331K	330.0	20	0.796	1.240	0.42
SDR-7030T-471K	470.0	30	0.796	2.800	0.22	SDR-7045T-471K	470.0	20	0.796	1.850	0.34
SDR-7030T-681K	680.0	28	0.796	4.350	0.18	SDR-7045T-681K	680.0	18	0.796	2.400	0.30
SDR-7030T-102K	1000.0	66	0.796	6.200	0.15	SDR-7045T-102K	1000.0	48	0.252	4.000	0.22

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION:

- Inductor Testing: HP4284A (Equivalent acceptable)
  - DCR: QuadTech 1880 Milliohmmeter
  - 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-7030T	7.2 ± 0.3	7.2 ± 0.3	3.0 ± 0.3	2.0	1.5	4.0	2.4	1.8	4.2
SDR-7045T	7.0 ± 0.2	7.0 ± 0.2	4.5 ± 0.3	2.0	1.5	4.0	2.4	1.8	4.2