

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR0703T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 3.6A
- 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

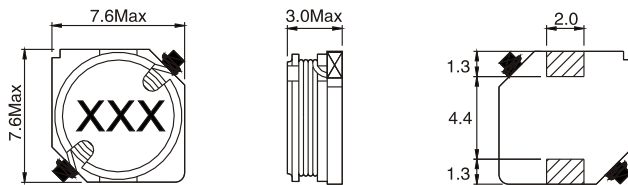
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDR0703T-1R0□	1.0	100	0.02	3.60
SDR0703T-1R5□	1.5	100	0.03	3.40
SDR0703T-2R2□	2.2	100	0.03	2.68
SDR0703T-3R3□	3.3	100	0.04	2.40
SDR0703T-4R7□	4.7	100	0.048	2.26
SDR0703T-6R8□	6.8	100	0.062	1.66
SDR0703T-100□	10	100	0.078	1.50
SDR0703T-120□	12	100	0.088	1.40
SDR0703T-150□	15	100	0.120	1.20
SDR0703T-180□	18	100	0.145	1.15
SDR0703T-220□	22	100	0.165	1.02
SDR0703T-270□	27	100	0.185	0.88
SDR0703T-330□	33	100	0.260	0.85
SDR0703T-390□	39	100	0.286	0.82
SDR0703T-470□	47	100	0.340	0.72
SDR0703T-560□	56	100	0.420	0.65
SDR0703T-680□	68	100	0.510	0.56
SDR0703T-820□	82	100	0.650	0.52
SDR0703T-101□	100	100	0.725	0.46
SDR0703T-151□	150	100	0.920	0.40
SDR0703T-221□	220	100	1.620	0.32
SDR0703T-331□	330	100	2.200	0.26
SDR0703T-471□	470	100	2.800	0.22
SDR0703T-681□	680	100	4.350	0.18
SDR0703T-102□	1000	100	6.200	0.15

□: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

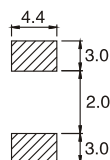
#### DIMENSIONS IN:mm



#### CONSTRUCTION



#### LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR: QuadTech 1880 Milliohmmer
- 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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR0704T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 1.5A
- 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

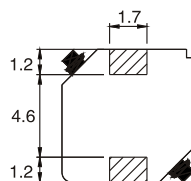
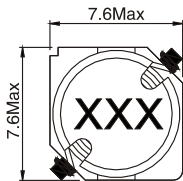
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH	Test Freq KHz	DCR Ω Max	IDC Max A
SDR0704T-100□	10	100	0.120	1.50
SDR0704T-120□	12	100	0.130	1.44
SDR0704T-150□	15	100	0.150	1.36
SDR0704T-180□	18	100	0.160	1.30
SDR0704T-220□	22	100	0.190	1.23
SDR0704T-270□	27	100	0.210	1.11
SDR0704T-330□	33	100	0.240	1.00
SDR0704T-390□	39	100	0.270	0.93
SDR0704T-470□	47	100	0.390	0.85
SDR0704T-560□	56	100	0.450	0.75
SDR0704T-680□	68	100	0.500	0.70
SDR0704T-820□	82	100	0.560	0.65
SDR0704T-101□	100	100	1.000	0.52
SDR0704T-121□	120	100	1.050	0.50
SDR0704T-151□	150	100	1.200	0.45
SDR0704T-181□	180	100	1.350	0.40
SDR0704T-221□	220	100	1.520	0.38
SDR0704T-271□	270	100	1.720	0.35
SDR0704T-331□	330	100	2.700	0.30
SDR0704T-391□	390	100	2.960	0.28
SDR0704T-471□	470	100	3.360	0.26
SDR0704T-561□	560	100	3.790	0.24
SDR0704T-681□	680	100	4.330	0.21
SDR0704T-821□	820	100	5.260	0.19
SDR0704T-102□	1000	100	6.220	0.17

□:1. K= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

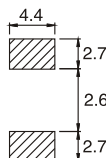
#### DIMENSIONS IN:mm



#### CONSTRUCTION



#### LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR:QuadTech 1880 Milliohmmer
- 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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR1030T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 3.0A
- 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

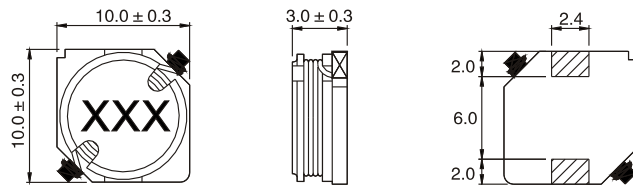
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR1030T-2R7□	2.7	13	7.96	0.028	3.00
SDR1030T-4R7□	4.7	13	7.96	0.040	2.60
SDR1030T-6R8□	6.8	15	7.96	0.052	2.20
SDR1030T-100□	10.0	15	2.52	0.064	2.00
SDR1030T-150□	15.0	18	2.52	0.100	1.65
SDR1030T-220□	22.0	20	2.52	0.145	1.38
SDR1030T-330□	33.0	16	2.52	0.220	1.10
SDR1030T-470□	47.0	10	2.52	0.270	0.96
SDR1030T-680□	68.0	12	2.52	0.360	0.82
SDR1030T-101□	100.0	14	0.796	0.540	0.70
SDR1030T-151□	150.0	23	0.796	0.700	0.60
SDR1030T-221□	220.0	23	0.796	1.150	0.46
SDR1030T-331□	330.0	25	0.796	1.700	0.38
SDR1030T-471□	470.0	20	0.796	2.250	0.28
SDR1030T-681□	680.0	18	0.796	3.300	0.23
SDR1030T-102□	1000.0	42	0.796	4.700	0.20

□:1. K= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

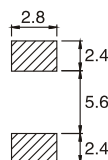
#### DIMENSIONS IN:mm



#### CONSTRUCTION



#### LAND PATTERNS



- 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.

# 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

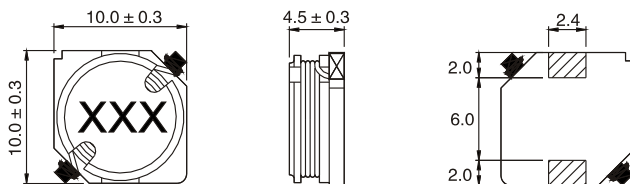
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (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= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

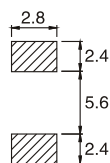
#### DIMENSIONS IN:mm



#### 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°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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR1305T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 7.2A
- 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

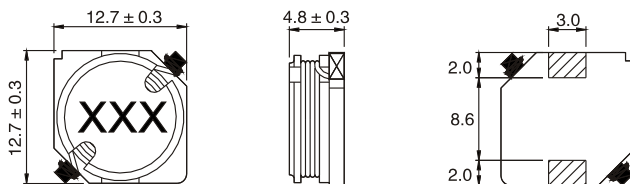
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR1305T-2R5□	2.5	19	7.96	0.0098	7.20
SDR1305T-3R5□	3.5	20	7.96	0.0105	6.00
SDR1305T-4R6□	4.7	18	7.96	0.0165	5.20
SDR1305T-6R8□	6.8	17	7.96	0.0240	4.30
SDR1305T-100□	10.0	35	2.52	0.0370	3.60
SDR1305T-150□	15.0	28	2.52	0.0460	3.30
SDR1305T-220□	22.0	27	2.52	0.0620	2.90
SDR1305T-330□	33.0	23	2.52	0.0850	2.50
SDR1305T-470□	47.0	24	2.52	0.1300	1.90
SDR1305T-680□	68.0	22	2.52	0.1650	1.65
SDR1305T-101□	100.0	20	0.796	0.2550	1.40
SDR1305T-151□	150.0	17	0.796	0.3800	1.20
SDR1305T-221□	220.0	16	0.796	0.5000	1.00
SDR1305T-331□	330.0	11	0.796	0.7000	0.85
SDR1305T-471□	470.0	14	0.796	1.1500	0.67
SDR1305T-681□	680.0	12	0.796	1.4000	0.60
SDR1305T-102□	1000.0	41	0.252	2.3500	0.46

□: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

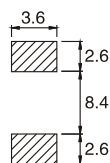
#### DIMENSIONS IN:mm



#### 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°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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR1308T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 4.05A
- 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

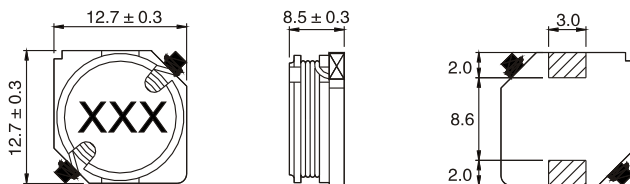
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR1308T-100□	10	20	2.52	0.036	4.05
SDR1308T-150□	15	20	2.52	0.040	3.34
SDR1308T-220□	22	20	2.52	0.060	2.80
SDR1308T-330□	33	20	2.52	0.080	2.40
SDR1308T-470□	47	20	2.52	0.110	2.00
SDR1308T-560□	56	20	2.52	0.120	1.90
SDR1308T-680□	68	20	2.52	0.150	1.80
SDR1308T-820□	82	20	2.52	0.190	1.60
SDR1308T-101□	100	15	0.796	0.230	1.50
SDR1308T-121□	120	15	0.796	0.320	1.40
SDR1308T-151□	150	15	0.796	0.370	1.30
SDR1308T-221□	220	15	0.796	0.440	1.00
SDR1308T-331□	330	15	0.796	0.600	0.90
SDR1308T-471□	470	15	0.796	0.880	0.70
SDR1308T-681□	680	10	0.796	1.180	0.50
SDR1308T-102□	1000	10	0.252	1.740	0.48
SDR1308T-122□	1200	10	0.252	1.920	0.38

□: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

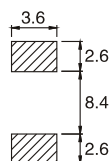
#### DIMENSIONS IN:mm



#### 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°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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR7030T SERIES



### FEATURES:

- Unshielded Structure
- Low DC Resistance
- Large current up to 3.0A
- 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

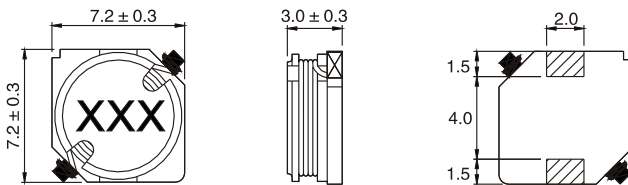
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR7030T-1R0□	1.0	18	7.96	0.022	3.00
SDR7030T-1R5□	1.5	17	7.96	0.027	2.75
SDR7030T-2R2□	2.2	17	7.96	0.030	2.60
SDR7030T-3R5□	3.5	17	7.96	0.038	2.20
SDR7030T-4R7□	4.7	14	7.96	0.048	1.85
SDR7030T-6R2□	6.2	17	7.96	0.058	1.65
SDR7030T-100□	10.0	16	2.52	0.075	1.50
SDR7030T-150□	15.0	14	2.52	0.115	1.20
SDR7030T-220□	22.0	14	2.52	0.160	1.02
SDR7030T-330□	33.0	13	2.52	0.230	0.85
SDR7030T-470□	47.0	12	2.52	0.340	0.70
SDR7030T-680□	68.0	12	2.52	0.480	0.58
SDR7030T-101□	100.0	18	0.796	0.720	0.46
SDR7030T-151□	150.0	18	0.796	0.920	0.40
SDR7030T-221□	220.0	23	0.796	1.600	0.32
SDR7030T-331□	330.0	24	0.796	2.200	0.26
SDR7030T-471□	470.0	30	0.796	2.800	0.22
SDR7030T-681□	680.0	28	0.796	4.350	0.18
SDR7030T-102□	1000.0	66	0.796	6.200	0.15

□:1. K= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

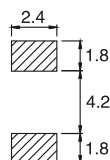
#### DIMENSIONS IN:mm



#### CONSTRUCTION



#### LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR:QuadTech 1880 Milliohmmer
- 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.

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## SDR7045T SERIES



### FEATURES:

- Unshielded 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

### 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

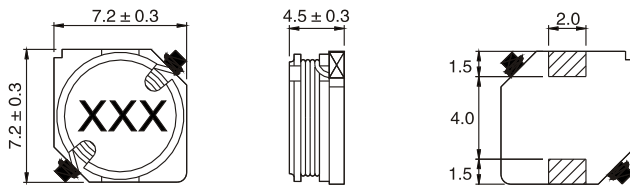
### ELECTRICAL CHARACTERISTICS:

Part Number	L μH (100KHz)	Q Typ	Test Freq Mhz	DCR Ω Max	IDC Max A
SDR7045T-1R0□	1.0	25	7.96	0.022	3.80
SDR7045T-1R5□	1.5	26	7.96	0.027	3.50
SDR7045T-2R2□	2.2	24	7.96	0.032	3.30
SDR7045T-3R3□	3.3	23	7.96	0.036	2.80
SDR7045T-4R7□	4.7	23	7.96	0.042	2.60
SDR7045T-6R8□	6.8	22	7.96	0.054	2.25
SDR7045T-100□	10.0	28	2.52	0.070	2.00
SDR7045T-150□	15.0	24	2.52	0.086	1.60
SDR7045T-220□	22.0	26	2.52	0.125	1.40
SDR7045T-330□	33.0	20	2.52	0.150	1.22
SDR7045T-470□	47.0	21	2.52	0.230	1.00
SDR7045T-680□	68.0	17	2.52	0.280	0.90
SDR7045T-101□	100.0	17	0.796	0.430	0.75
SDR7045T-151□	150.0	17	0.796	0.580	0.62
SDR7045T-221□	220.0	22	0.796	0.930	0.50
SDR7045T-331□	330.0	20	0.796	1.240	0.42
SDR7045T-471□	470.0	20	0.796	1.850	0.34
SDR7045T-681□	680.0	18	0.796	2.400	0.30
SDR7045T-102□	1000.0	48	0.252	4.000	0.22

□:1. K= ± 10%,M= ± 20%,N= ± 30%

### TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

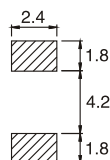
#### DIMENSIONS IN:mm



#### CONSTRUCTION



#### LAND PATTERNS



- Inductor Testing: HP4284A (Equivalent acceptable)
- DCR:QuadTech 1880 Milliohmmer
- 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.