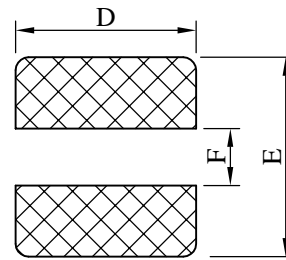
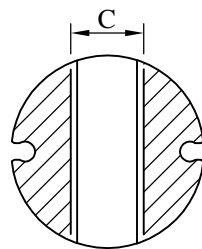
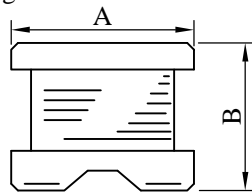
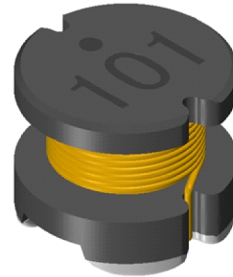
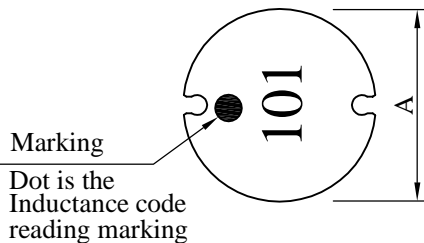


SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|--------------------|---------------|------------------|------|---|
| PROD. NAME | SMD Power Inductor | ABC'S DWG NO. | SR0604□□□□L□-□□□ | | |
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I . Configuration and dimensions :



(PCB Pattern)

Unit : m/m

| A | B | C | D | E | F |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 5.60 ±0.2 | 4.50 ±0.3 | 2.30 ref. | 5.80 ref. | 6.00 ref. | 1.70 ref. |

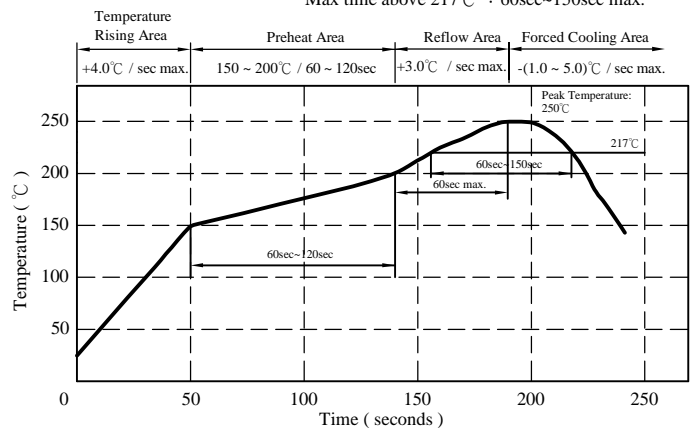
II . Description :

- a . Ferrite drum core construction.
- b . Enamelled copper wire : H class
- c . Product weight : 0.360g (ref.)
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
(Temp. rise included)
- c . Resistance to solder heat : 250°C .10 secs.

Peak Temp : 250°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.



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SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|--------------------|---------------|------------------|------|---|
| PROD. NAME | SMD Power Inductor | ABC'S DWG NO. | SR0604□□□□L□-□□□ | | |
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IV . Electrical characteristics :

| DWG No. | Inductance (μH) | Q ref. | Test Freq. (Hz) | | SRF (MHz) nom. | RDC (Ω) max. | IDC (A) max. |
|------------------|-----------------|--------|-------------------|--------|------------------|----------------|----------------|
| | | | L | Q | | | |
| SR06041R2ML□-□□□ | 1.2±20% | 35 | 1k | 7.960M | 155.0 | 0.020 | 4.20 |
| SR06041R5ML□-□□□ | 1.5±20% | 32 | 1k | 7.960M | 108.0 | 0.024 | 3.60 |
| SR06042R2ML□-□□□ | 2.2±20% | 33 | 1k | 7.960M | 79.0 | 0.031 | 2.80 |
| SR06042R7ML□-□□□ | 2.7±20% | 22 | 1k | 7.960M | 65.0 | 0.055 | 2.30 |
| SR06043R3ML□-□□□ | 3.3±20% | 22 | 1k | 7.960M | 60.0 | 0.060 | 2.00 |
| SR06043R9ML□-□□□ | 3.9±20% | 22 | 1k | 7.960M | 40.0 | 0.065 | 1.90 |
| SR06044R7ML□-□□□ | 4.7±20% | 20 | 1k | 7.960M | 34.0 | 0.070 | 1.80 |
| SR06045R6ML□-□□□ | 5.6±20% | 20 | 1k | 7.960M | 30.0 | 0.075 | 1.70 |
| SR06046R8ML□-□□□ | 6.8±20% | 20 | 1k | 7.960M | 28.0 | 0.080 | 1.60 |
| SR06048R2ML□-□□□ | 8.2±20% | 20 | 1k | 7.960M | 26.0 | 0.090 | 1.50 |
| SR0604100ML□-□□□ | 10.0±20% | 30 | 1k | 2.520M | 23.0 | 0.100 | 1.45 |
| SR0604120ML□-□□□ | 12.0±20% | 30 | 1k | 2.520M | 22.0 | 0.120 | 1.40 |
| SR0604150YL□-□□□ | 15.0±15% | 30 | 1k | 2.520M | 20.0 | 0.140 | 1.30 |
| SR0604180YL□-□□□ | 18.0±15% | 30 | 1k | 2.520M | 18.0 | 0.150 | 1.25 |
| SR0604220YL□-□□□ | 22.0±15% | 30 | 1k | 2.520M | 16.0 | 0.190 | 1.10 |
| SR0604270YL□-□□□ | 27.0±15% | 28 | 1k | 2.520M | 14.0 | 0.220 | 1.00 |
| SR0604330KL□-□□□ | 33.0±10% | 24 | 1k | 2.520M | 13.0 | 0.250 | 0.88 |
| SR0604390KL□-□□□ | 39.0±10% | 24 | 1k | 2.520M | 13.0 | 0.320 | 0.80 |
| SR0604470KL□-□□□ | 47.0±10% | 22 | 1k | 2.520M | 12.0 | 0.370 | 0.72 |
| SR0604560KL□-□□□ | 56.0±10% | 22 | 1k | 2.520M | 11.0 | 0.420 | 0.68 |
| SR0604680KL□-□□□ | 68.0±10% | 22 | 1k | 2.520M | 10.0 | 0.520 | 0.62 |
| SR0604820KL□-□□□ | 82.0±10% | 20 | 1k | 2.520M | 9.0 | 0.600 | 0.58 |
| SR0604101KL□-□□□ | 100.0±10% | 20 | 1k | 796k | 8.5 | 0.700 | 0.52 |
| SR0604121KL□-□□□ | 120.0±10% | 22 | 1k | 796k | 6.6 | 0.930 | 0.48 |
| SR0604151KL□-□□□ | 150.0±10% | 22 | 1k | 796k | 6.2 | 1.100 | 0.40 |
| SR0604181KL□-□□□ | 180.0±10% | 20 | 1k | 796k | 6.0 | 1.380 | 0.38 |
| SR0604221KL□-□□□ | 220.0±10% | 20 | 1k | 796k | 5.6 | 1.570 | 0.35 |
| SR0604271KL□-□□□ | 270.0±10% | 26 | 1k | 796k | 3.9 | 1.880 | 0.32 |
| SR0604331KL□-□□□ | 330.0±10% | 25 | 1k | 796k | 3.3 | 2.250 | 0.27 |
| SR0604391KL□-□□□ | 390.0±10% | 25 | 1k | 796k | 3.1 | 2.480 | 0.25 |
| SR0604471KL□-□□□ | 470.0±10% | 25 | 1k | 796k | 2.9 | 3.300 | 0.21 |
| SR0604561KL□-□□□ | 560.0±10% | 24 | 1k | 796k | 2.5 | 4.000 | 0.18 |
| SR0604681KL□-□□□ | 680.0±10% | 26 | 1k | 796k | 2.3 | 4.650 | 0.16 |
| SR0604821KL□-□□□ | 820.0±10% | 25 | 1k | 796k | 2.0 | 5.200 | 0.14 |

- 1). □ : Packaging information : □ Code
 2). "-□□□" : Reference code
 3). Electrical specifications at 25°C
 4). IDC base on $\Delta L/L0A=10\%$ max. & Temp. rise 40°C max.

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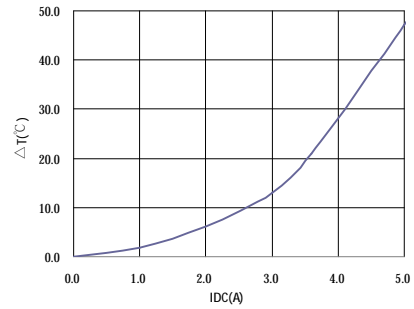
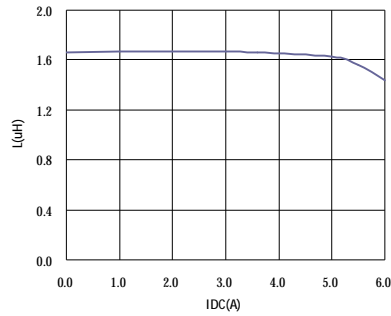
SPECIFICATION FOR APPROVAL

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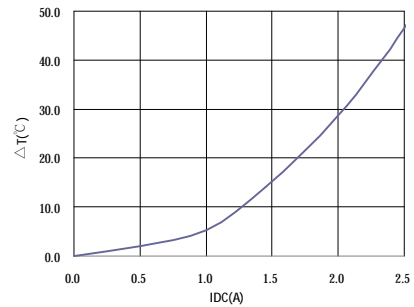
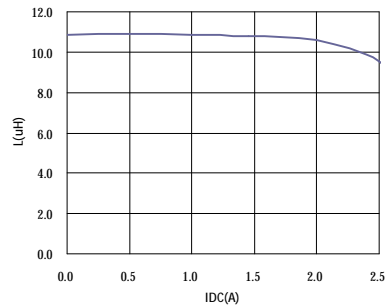
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|---------------|--------------------|---------------|------------------|------|---|
| PROD. NAME | SMD Power Inductor | ABC'S DWG NO. | SR0604□□□□L□-□□□ | | |
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V . Curve :

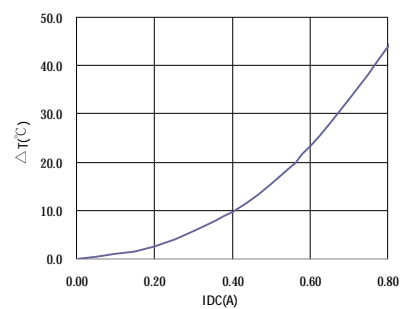
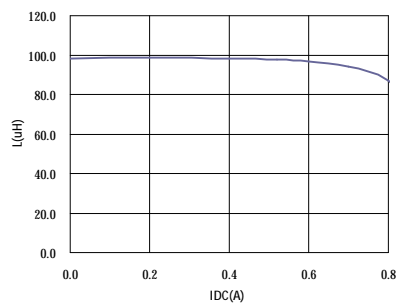
SR06041R5ML□



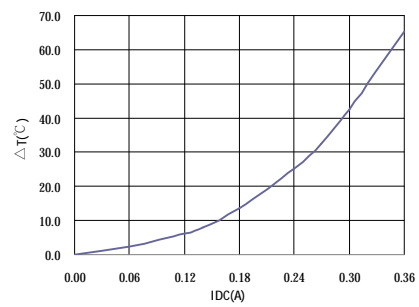
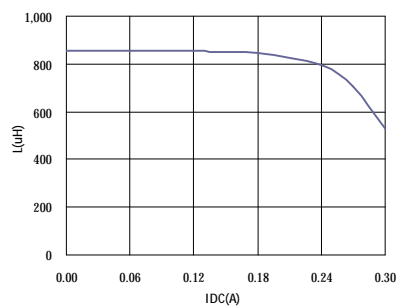
SR0604100ML□



SR0604101KL□



SR0604821KL□



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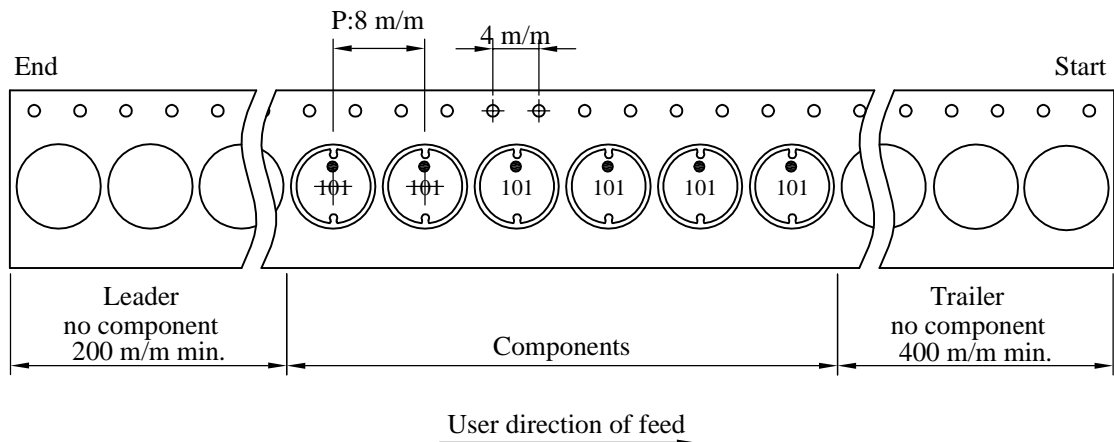
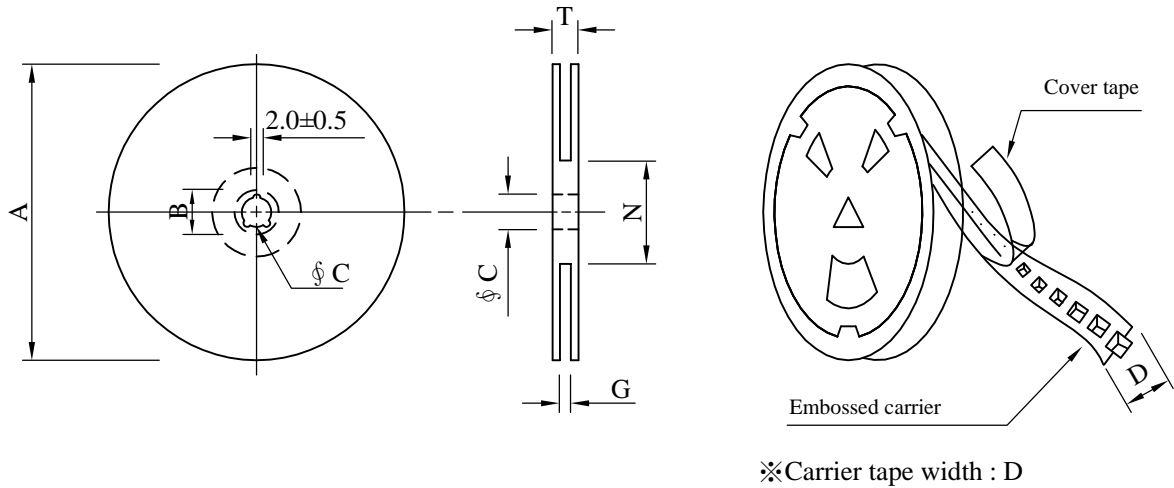
SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|--------------------|---------------|------------------|------|---|
| PROD. NAME | SMD Power Inductor | ABC'S DWG NO. | SR0604□□□□L□-□□□ | | |
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VI . Packaging information :

(1) Configuration



(2) Dimensions

Unit:m/m

| Style | A | B | C | D | G | N | T |
|---------|-----|--------|--------|----|------------------|------------------|------|
| 07 - 12 | 178 | 21±0.8 | 13 | 12 | 14 ⁺⁰ | 50 ⁻⁰ | 16.5 |
| 13 - 12 | 330 | 21±0.8 | 13±0.5 | 12 | 14 ⁺⁰ | 50 ⁻⁰ | 18.4 |

(3) Q'TY & G.W. Per package

| Code | Inner : Reel | | | Outer : Carton | | |
|------|--------------|-----------|---------|----------------|-----------|--------------|
| | Q'TY (pcs) | G.W. (gw) | Style | Q'TY (pcs) | G.W. (Kg) | Size (cm) |
| B | 400 | 260 | 07 - 12 | 16,000 | 11.8 | 42 x 41 x 24 |
| C | 1,500 | 950 | 13 - 12 | 12,000 | 8.8 | 38 x 37 x 22 |

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SPECIFICATION FOR APPROVAL

REF. :

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|------------|--------------------|---------------|------------------|------|---|
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VII . Reliability test :

| Item | Reference documents | Test Condition | Test Specification |
|-------------------------------------|--|---|---|
| 1.High Temperature Exposure | MIL-STD-202 Method 108 | 1.Temperature: 125±2℃ 2.Time:96±2 hours. | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 2.Temperature Cycling | JESD22-A 104 | 1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycle 3.Dwell time:30 minutes | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 3.Biased Humidity Test | MIL-STD-202 Method 103 | 1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 4.Operational Life | JESD22-A 108 | 1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 5.External Visual | JESD22-B 101 & MIL-STD-883 Method 2009 | Inspect product constructions, marking and workmanship. | 1.No pollution on the surface of products. 2.Clear marking. 3.No crack. |
| 6.Physical Dimensions | JESD22-B 100 | Verify physical dimensions to the applicable product detail specification. | Per product specification standard |
| 7.Resistance to solvents | MIL-STD-202 Method 215 | Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles. | 1.No body change in apperance. 2.No marking blurred. 3.Inductance shall not change more than ±10%. |
| 8.Vibration Test | MIL-STD-202 Method 204 | 1.Frequency and Amplitud : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total. | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 9.Resistance To Soldering Heat Test | MIL-STD-202 Method 210 & J-STD020D.1 | 1.Highest temperature : 250±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Second. 3.IR reflow times : 3 times. | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 10.Saturation Current | JIS C 6436 & User SPEC. | 1.Applied rated current for 5 second. 2.Saturation current | Inductance shall not drop more than 10% max. |
| 11.Over load | JIS C 6436 & User SPEC. | 1.Applied one and half rated current for a period of 5 minutes. 2.Rated current | No electrical or mechanical damage |
| 12.Temperature Rise Current | JIS C 6436 & User SPEC. | 1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current | Surface temperature rise is less than 40℃ max. |
| 13.Solderability Test | J-STD-002 & JESD22-B 102 | 1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 second. 4.IR reflow times : 1 times. | More than 95% soldering coverage min on terminations. |
| 14.Electrical Characteriazation | MIL-STD-202 Method 304 & User SPEC. | 1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃. | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%. |
| 15.Drop | CNS-C6354 & GB/T 2423.8 | 1.Products shall be mounted on SPEC. pcb and dropped down from a heigh of 1m 2.Drop total time : 6 time (Every side ofsample drop 2 time) | 1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage. |
| 16.Terminal Strength Test | IEC 60068-2-21 | 1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds. | After test, inductors shall be no mechanical damage. |

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