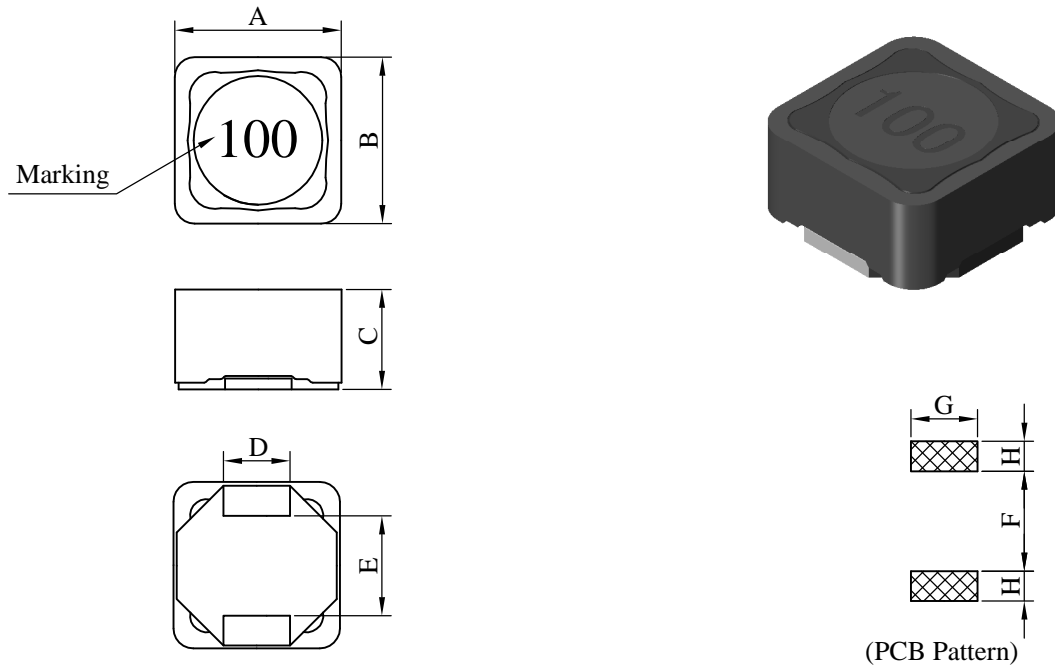


SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|---------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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I . Configuration and dimensions :



Unit : m/m

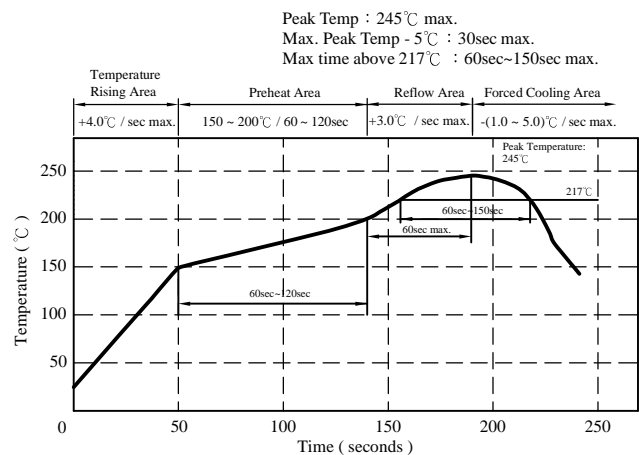
| A | B | C | D | E | F | G | H |
|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 12.50 ±0.3 | 12.50 ±0.3 | 6.00 ±0.5 | 5.00 ±0.3 | 7.00 typ. | 6.80 ref. | 5.40 ref. | 2.90 ref. |

II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : F class
- d . Product weight : 3.645 g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . 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 : 245°C .10 secs.



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SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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IV . Electrical characteristics :

| DWG No. | Inductance (μH) | Q ref. | Test Freq. (MHz) | SRF (MHz) typ. | RDC (mΩ) max. | Irms (A) typ. | Isat (A) typ. |
|------------------|-------------------|--------|--------------------|------------------|-----------------|-----------------|-----------------|
| SS12601R0YL□-□□□ | 1.0±30% | 26 | 7.96 | 100.00 | 7.8 | 9.40 | 10.00 |
| SS12601R2YL□-□□□ | 1.2±30% | 18 | 7.96 | 91.10 | 8.0 | 9.20 | 9.80 |
| SS12601R5YL□-□□□ | 1.5±30% | 24 | 7.96 | 86.00 | 9.5 | 8.80 | 9.00 |
| SS12602R2YL□-□□□ | 2.2±30% | 22 | 7.96 | 70.00 | 10.5 | 8.20 | 8.50 |
| SS12602R4YL□-□□□ | 2.4±30% | 18 | 7.96 | 63.80 | 11.5 | 7.80 | 8.00 |
| SS12603R3YL□-□□□ | 3.3±30% | 20 | 7.96 | 40.00 | 12.0 | 7.60 | 7.80 |
| SS12603R5YL□-□□□ | 3.5±30% | 22 | 7.96 | 37.60 | 13.0 | 7.50 | 7.60 |
| SS12604R7YL□-□□□ | 4.7±30% | 19 | 7.96 | 36.70 | 15.5 | 6.80 | 7.00 |
| SS12605R6YL□-□□□ | 5.6±30% | 19 | 7.96 | 33.00 | 16.2 | 6.70 | 6.90 |
| SS12606R1YL□-□□□ | 6.1±30% | 21 | 7.96 | 29.80 | 17.0 | 6.60 | 6.80 |
| SS12606R8YL□-□□□ | 6.8±30% | 20 | 7.96 | 28.20 | 18.0 | 6.30 | 6.50 |
| SS12607R6YL□-□□□ | 7.6±30% | 16 | 7.96 | 27.90 | 19.0 | 6.00 | 6.20 |
| SS12608R2YL□-□□□ | 8.2±30% | 18 | 7.96 | 24.00 | 19.5 | 5.70 | 5.80 |
| SS1260100ML□-□□□ | 10.0±20% | 32 | 2.52 | 21.00 | 20.0 | 5.50 | 5.50 |
| SS1260120ML□-□□□ | 12.0±20% | 27 | 2.52 | 19.40 | 23.0 | 5.20 | 5.00 |
| SS1260150ML□-□□□ | 15.0±20% | 25 | 2.52 | 17.60 | 27.0 | 5.00 | 4.60 |
| SS1260180ML□-□□□ | 18.0±20% | 28 | 2.52 | 15.50 | 36.0 | 4.20 | 3.90 |
| SS1260220ML□-□□□ | 22.0±20% | 29 | 2.52 | 13.40 | 43.0 | 4.00 | 3.70 |
| SS1260270ML□-□□□ | 27.0±20% | 26 | 2.52 | 12.70 | 45.0 | 3.60 | 3.30 |
| SS1260330ML□-□□□ | 33.0±20% | 27 | 2.52 | 9.97 | 60.0 | 3.00 | 2.80 |
| SS1260390ML□-□□□ | 39.0±20% | 22 | 2.52 | 10.40 | 70.0 | 2.80 | 2.70 |
| SS1260470ML□-□□□ | 47.0±20% | 22 | 2.52 | 7.63 | 86.0 | 2.60 | 2.50 |
| SS1260560ML□-□□□ | 56.0±20% | 24 | 2.52 | 7.92 | 100.0 | 2.30 | 2.20 |
| SS1260680ML□-□□□ | 68.0±20% | 22 | 2.52 | 7.43 | 110.0 | 2.10 | 2.10 |
| SS1260820ML□-□□□ | 82.0±20% | 25 | 2.52 | 6.85 | 145.0 | 1.95 | 1.90 |
| SS1260101ML□-□□□ | 100.0±20% | 26 | 0.796 | 6.07 | 180.0 | 1.70 | 1.70 |
| SS1260121KL□-□□□ | 120.0±10% | 26 | 0.796 | 5.50 | 210.0 | 1.65 | 1.65 |
| SS1260151KL□-□□□ | 150.0±10% | 20 | 0.796 | 5.00 | 260.0 | 1.55 | 1.55 |
| SS1260181KL□-□□□ | 180.0±10% | 26 | 0.796 | 4.50 | 320.0 | 1.40 | 1.40 |
| SS1260221KL□-□□□ | 220.0±10% | 22 | 0.796 | 4.20 | 380.0 | 1.38 | 1.30 |
| SS1260271KL□-□□□ | 270.0±10% | 20 | 0.796 | 3.60 | 450.0 | 1.30 | 1.20 |
| SS1260331KL□-□□□ | 330.0±10% | 22 | 0.796 | 3.20 | 580.0 | 1.15 | 1.10 |
| SS1260391KL□-□□□ | 390.0±10% | 20 | 0.796 | 2.80 | 700.0 | 1.08 | 1.00 |
| SS1260471KL□-□□□ | 470.0±10% | 18 | 0.796 | 2.60 | 820.0 | 0.95 | 0.90 |
| SS1260561KL□-□□□ | 560.0±10% | 22 | 0.796 | 2.40 | 1000.0 | 0.88 | 0.80 |
| SS1260681KL□-□□□ | 680.0±10% | 18 | 0.796 | 2.20 | 1150.0 | 0.80 | 0.75 |
| SS1260821KL□-□□□ | 820.0±10% | 20 | 0.796 | 2.00 | 1500.0 | 0.73 | 0.63 |
| SS1260102KL□-□□□ | 1000.0±10% | 30 | 0.252 | 1.80 | 1700.0 | 0.68 | 0.60 |

1). □ : Packaging information : □ Code

2). "-□□□" : Reference code

3). Electrical specifications at 25°C

4). L Test Freq. : 100kHz / 0.1V (1R0Y~8R2Y) , 1kHz / 1V (100M~102K)

5). Irms Base on temp rise 40°C typ.

6). Isat Base on ΔL/L0A=25% typ.

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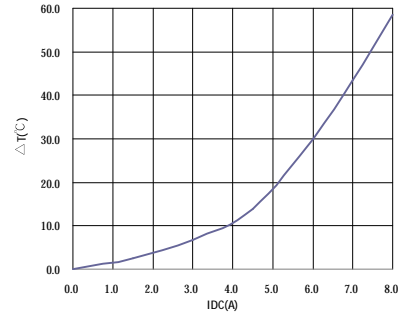
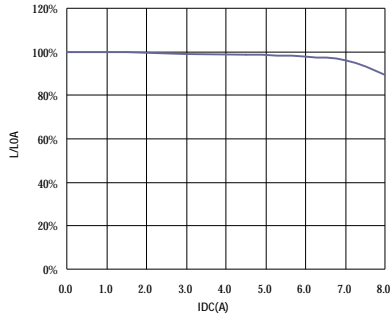
SPECIFICATION FOR APPROVAL

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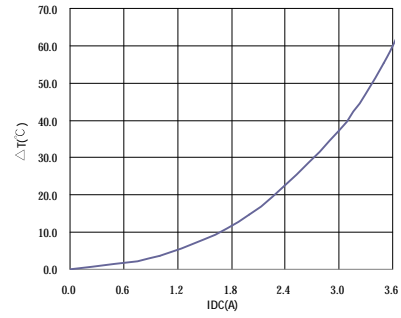
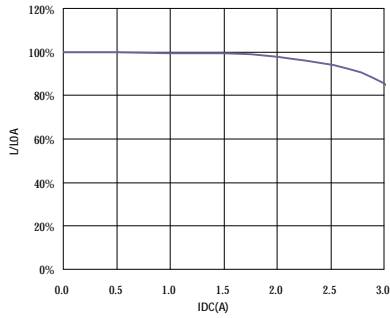
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|---------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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V . Curve :

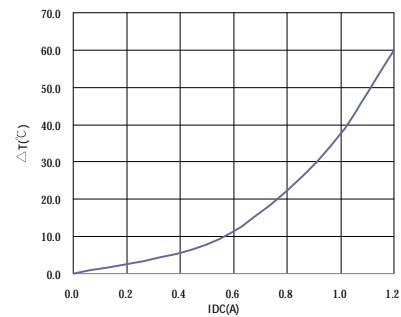
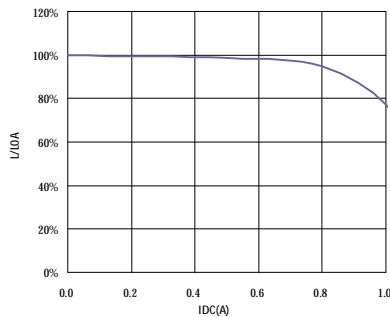
SS12604R7YL□



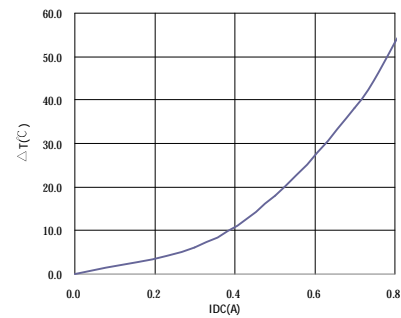
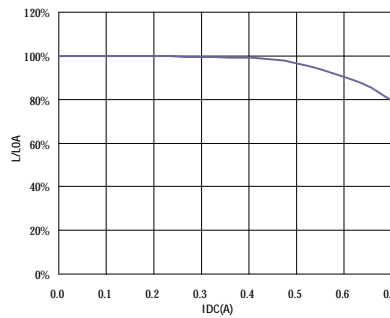
SS1260470ML□



SS1260471KL□



SS1260102KL□



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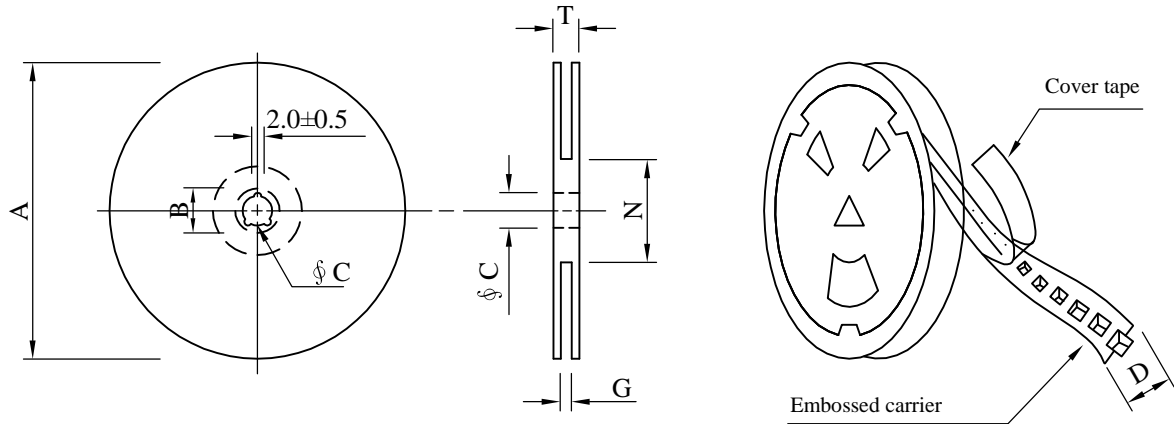
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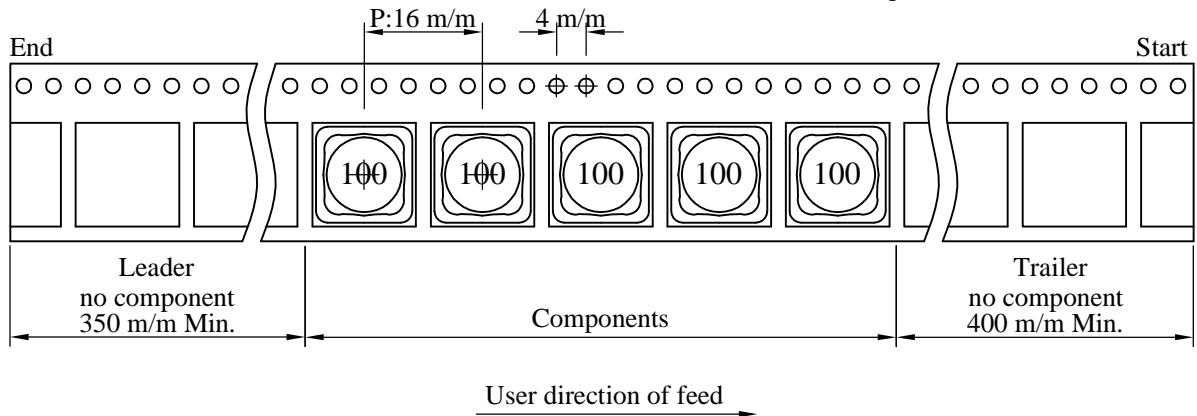
| | | | | | |
|------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

| Style | A | B | C | D | G | N | T |
|---------|-----|--------|--------|----|------------------|------------------|------|
| 13 - 24 | 330 | 21±0.8 | 13±0.5 | 24 | 26 ⁺⁰ | 60 ⁻⁰ | 30.4 |

(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 | 600 | 2460 | 13 - 24 | 2,400 | 11.1 | 38 x 37 x 22 |
| C | 500 | 2130 | 13 - 24 | 2,000 | 9.8 | 38 x 37 x 22 |

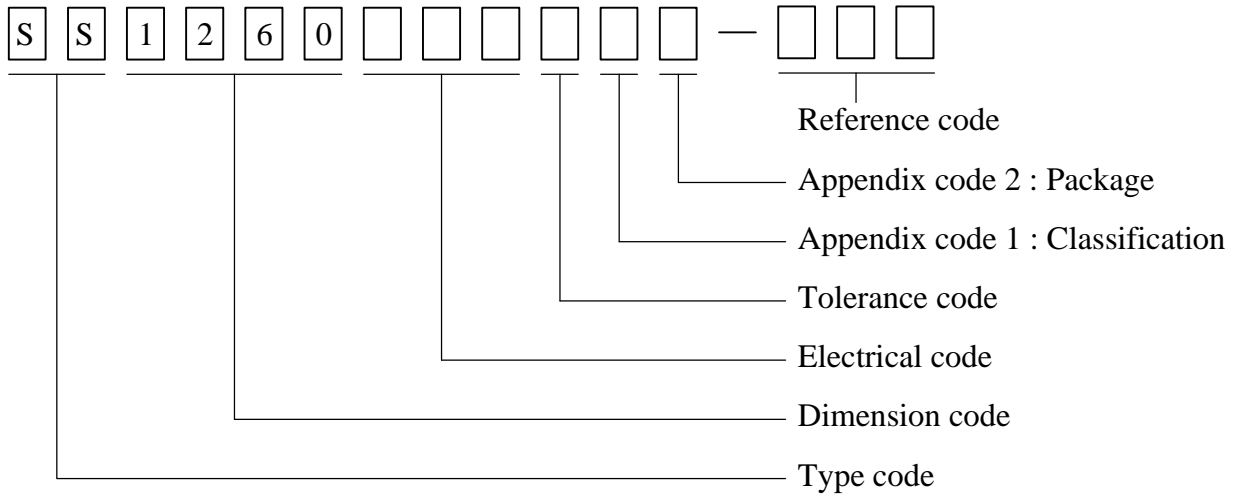
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SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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VI . Drawing number expression :



Appendix code 1 : Product Classification

Appendix code 2 : Package Information

| Code | Inner package | Cover tape | Carrier tape | Bag | Package Q'TY | Remark |
|------|---------------------|------------|--------------|------------|--------------|--------|
| B | T /R (Reel package) | UCT | Antistatic | Antistatic | 600 pcs | |
| C | T /R (Reel package) | UCT | Antistatic | Antistatic | 500 pcs | |

SPECIFICATION FOR APPROVAL

REF. :

| | | | | | |
|------------|-----------------------------|---------------|------------------|------|---|
| PROD. NAME | Shielded SMD Power Inductor | ABC'S DWG NO. | SS1260□□□□L□-□□□ | | |
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VIII . 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 ±20%. |
| 2.Temperature Cycling | JESD22-A 104 | 1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycles 3.Dwell time:30 minutes | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%. |
| 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 ±20%. |
| 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 ±20%. |
| 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 apperaranse. 2.No marking blurred. 3.Inductance shall not change more than ±20%. |
| 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 ±20%. |
| 9.Resistance To Soldering Heat Test | MIL-STD-202 Method 210 & J-STD020D.1 | 1.Highest temperature : 245±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Seconds. 3.IR reflow times : 3 times. | 1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%. |
| 10.Saturation Current | JIS C 6436 & User SPEC. | 1.Applied rated current for 5 seconds. 2.Saturation current | Inductance shall not drop more than 25% typ. |
| 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℃ typ. |
| 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 seconds. 4.IR reflow times : 1 time. | 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 ±20%. |
| 15.Drop | CNS-C6354 & GB/T 2423.8 | 1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 times (Every side of sample drop 2 times) | 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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