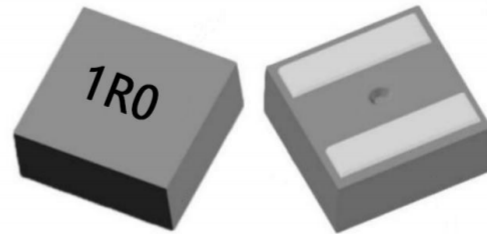


SMD Molding Power Inductor

◆ Features

- 1、Soft saturation
- 2、High current, low DCR, high efficiency
- 3、High reliability.
- 4、100% Lead(Pb)-Free and RoHS compliant.
- 5、Operating temperature -55~+125°C
(Including self - temperature rise)

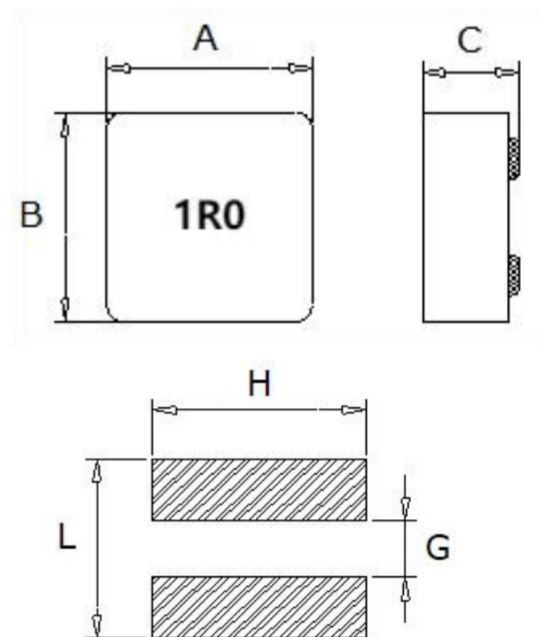

◆ Applications

- 1、Note PC power system, incl. IMVP-6
- 2、DC/DC converter
- 3、Pad,Smart phone.
- 4、Portable gaming devices, Smart wear, Wi-Fi module.
- 5、Notebooks, VR, AR
- 6、LCD displays, HDDs, DVCs, DSCs, etc
- 7、Baseband power supply, Amplifier, Power management,
Module power supply, Camera power manageme.

◆ Lead Free Part Numbering

SLO 0660 T 1R0 M S T
(1) (2) (3) (4) (5) (6) (7)

- (1) Series Type
- (2) Dimension: A X C
- (3) Material Code
- (4) Inductance: 1R0=1.0μH ;
2R2=2.2μH;
- (5) Inductance Tolerance: M=±20%, Y=±30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier tape


◆ Dimensions

| Series | A±0.2(mm) | B±0.2(mm) | C±0.2(mm) | L Ref(mm) | H Ref(mm) | G Ref(mm) |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| SLO0660T | 6.6 | 6.4 | 5.8 | 5.6 | 5.6 | 2.5 |

◆ Specification

| Part Number | INDUCTANCE Lo(μ H) | DCR (m Ω) | Test a condition | Isat (A) | | Irms (A)Typ | |
|-----------------|----------------------------|-------------------|---------------------|-----------|------|-------------------------|-------------------------|
| | | Max. | | Max. | Typ | 20 $^{\circ}$ C rise | 40 $^{\circ}$ C rise |
| SLO0660T Series | | | | | | | |
| SLO0660T1R0MTT | 1.0 | 4.4 | 100KHz/0.1V | 19.0 | 24.0 | 16.0 | 21.0 |
| SLO0660T1R5MTT | 1.5 | 6.1 | 100KHz/0.1V | 15.0 | 20.0 | 13.5 | 17.5 |
| SLO0660T2R2MTT | 2.2 | 8.1 | 100KHz/0.1V | 12.5 | 16.5 | 11.0 | 14.0 |
| SLO0660T3R3MTT | 3.3 | 12.3 | 100KHz/0.1V | 11.0 | 13.0 | 9.0 | 12.0 |
| SLO0660T4R7MTT | 4.7 | 14.4 | 100KHz/0.1V | 9.3 | 10.5 | 8.5 | 11.0 |
| SLO0660T5R6MTT | 5.6 | 15.9 | 100KHz/0.1V | 8.7 | 9.9 | 7.6 | 10.0 |
| SLO0660T6R8MTT | 6.8 | 20.8 | 100KHz/0.1V | 8.1 | 9.2 | 7.0 | 9.0 |
| SLO0660T8R2MTT | 8.2 | 26.4 | 100KHz/0.1V | 8 | 8.4 | 6 | 8 |
| SLO0660T100MTT | 10 | 29.82 | 100KHz/0.1V | 6.8 | 7.6 | 5 | 7 |
| SLO0660T150MTT | 15 | 43.75 | 100KHz/0.1V | 5 | 5.8 | 4.5 | 6 |
| SLO0660T220MTT | 22 | 60.63 | 100KHz/0.1V | 4.8 | 5.6 | 3.8 | 5 |

NOTES:

1. Test frequency : L : 100KHz /0.1V;
2. All test in 25 $^{\circ}$ C temperature.
3. Testing Instrument:L:HP4285A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502, MICRO OHMMETER.
4. Heating Rating Current (Irms) will cause the coil temperature rise of 40 $^{\circ}$ C approximately (Δ t) ;
5. Saturation Current (Isat) will cause L0 to drop 30% approximately.
6. The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under the worst case operating condition. Circuit design, component,PCB trace size and thickness airflow and other cooling provisions all could affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.n.



DCR Test



◆ Reliability Test

| Mechanical Reliability | | |
|--------------------------|--|--|
| Item | Specification and Requirement | Test Method |
| Solderability | 1. No case deformation or change in visual 2. New solder coverage More than 95% | 1.Preheat: 155°C ± 5°C , 60S ± 2S 2.Tin: lead-free. 3.Temperature:240°C ± 5°C , flux 3.0S ± 0.5S. |
| Mechanical shock | 1. No case deformation or change in visual 2. $\Delta L/L_0 \leq \pm 10\%$ | 1. Acceleration: 100G 2. Pulse time: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular directions |
| Mechanical vibration | 1. No case deformation or change in visual 2. $\Delta L/L_0 \leq \pm 10\%$ | 1. Reflow: 2times 2. Frequency: 10HZ ~ 50HZ ~ 10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm ± 10% 4. Directions: X,Y,Z 5. Time: 12 cycle / direction |
| Endurance Reliability | | |
| Item | Specification and Requirement | Test Method |
| Thermal Shock | Inductance change: Within ± 10% Without distinct damage in visual | 1. First -55°C for 30 minutes, last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24 ± 2 hours |
| Humidity Resistance | Inductance change: Within ± 10% Without distinct damage in visual | 1.Reflow 2 times, 2.85°C ± 3°C,85% ± 3%RH,1000 hours 3.Measured at room temperature after placing for 24 ± 2 hours |
| Low temperature storage | Inductance change: Within ± 10% Without distinct damage in visual | 1. Temperature: -55 ± 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours |
| High temperature storage | Inductance change: Within ± 10% Without distinct damage in visual | 1. Temperature: +125 ± 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 ± 2 hours |

◆ Recommended Soldering Technologies

(1) Re-flowing Profile

Preheat condition: 150 ~200°C/60~180sec.

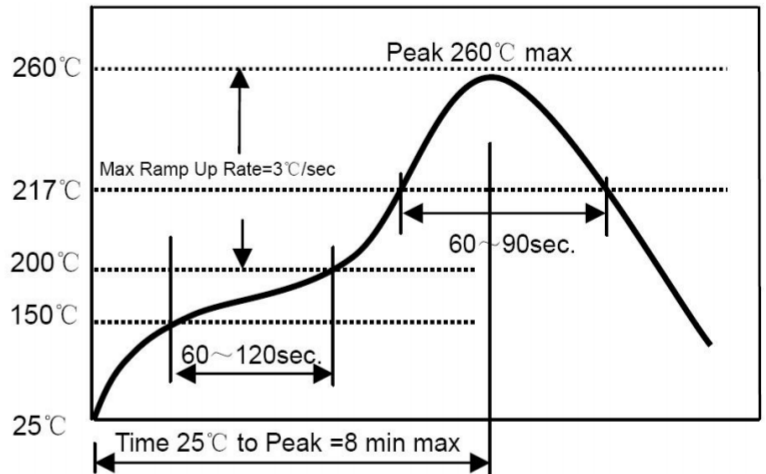
Allowed time above 217°C: 80~120sec.

Max temp: 260°C

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



(2) Iron Soldering Profile

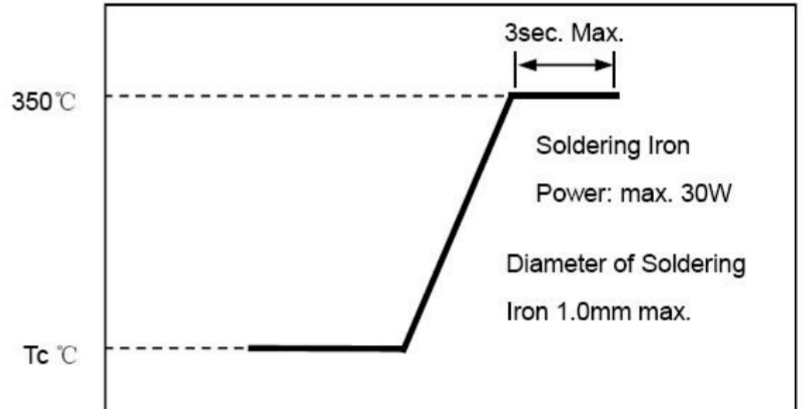
Iron soldering power: Max. 30W

Pre-heating: 150°C/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering



◆ Packaging:750PCS/Reel

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