

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)

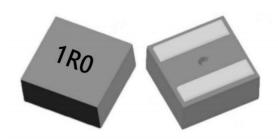
Applications

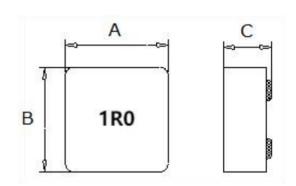
- 1, Note PC power system, incl. IMVP-6
- 2, DC/DC converter
- 3, Pad, Smart phone.
- 4. Portable gaming devices, Smart wear, Wi-Fi module.
- 5, Notebooks, VR, AR
- 6, LCD displays, HDDs, DVCs, DSCs, etc
- 7. Baseband power supply, Amplifier, Power management, Module power supply, Camera power manageme.

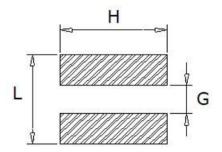
Lead Free Part Numbering

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

- (1) Series Type
- (2) Dimension: AXC
- (3) Material Code
- (4) Inductance: 1R0=1.0μH;
 - $2R2=2.2\mu H;$
- (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

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SLO0660T Series

♦ Specification

	INDUCTANCE Lo(µ H)	DCR (mΩ)	Test a	lsat (A)		Irms (A)Typ	
Part Number		Max.	condition		Тур	20℃ rise	40℃ 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 °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°C approximately (Δt);
- 5. Saturation Current (Isat) will cause L0 to drop 30% approximately.
- 6.The part temperature (ambient + temp rise) should not exceed 125°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

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SLO0660T Series

♦ Reliability Test

Mechanical Relia	bility				
Item	Specification and Requirement	Test Method			
Solderability	 No case deformation or change in visual New solder coverage More than 95% 	1.Preheat: $155^{\circ}C\pm5^{\circ}C$, $60S\pm2S$ 2.Tin: lead-free. 3.Temperature:240 $^{\circ}C\pm5^{\circ}C$, flux $3.0S\pm0.5S$.			
Mechanical shock	 1. No case deformation or change in visual 2. △L/Lo≤±10% 	 Acceleration: 100G Pulse time: 6ms 3 times in each positive and negative direction of 3 mutual perpendicular directions 			
Mechanical vibration	1. No case deformation or change in visual2. △L/Lo≦±10%	 Reflow: 2times Frequency: 10HZ~50HZ~10HZ, 20 Min/Cycles Amplitude: 1.52 mm±10% Directions: X,Y,Z Time: 12 cycle / direction 			
Endurance Reliat	pility				
Item	Specification and Requirement	Test Method			
Thermal Shock	Inductance change: Within \pm 10% Without distinct damage in visual	 First -55°C for 30 minutes, last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. Max transfer time is 3 minutes. Measured at room temperature after placing for 24±2 hours 			
Humidity Resistance	Inductance change: Within \pm 10% Without distinct damage in visual	1.Reflow 2 times, $2.85^\circ\!$			
Low temperature storage	Inductance change: Within \pm 10% Without distinct damage in visual	1. Temperature: -55 \pm 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 \pm 2 hours			
High temperature storage	Inductance change: Within \pm 10% Without distinct damage in visual	1. Temperature: +125 \pm 2°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24 \pm 2 hours			





♦ Recommended Soldering Technologies

(1) Re-flowing Profile

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

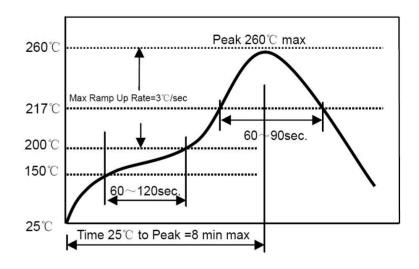
Allowed time above 217°C: 80~120sec.

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

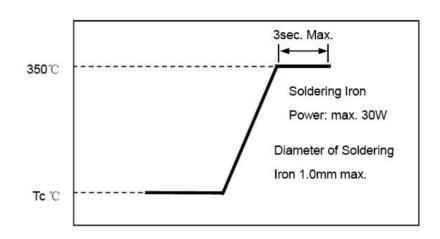
Iron soldering power: Max. 30W

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