

CUSTOMER _____

CUSTOMER'S P/N _____

DESCRIPTION _____ POWER INDUCTOR _____

SGTE PART NO. _____ GPDA1010-R36M01 _____

SAMPLE NO. S11010601 REVISION NO. A DATE 06-Jan-11

SPECIFICATION FOR APPROVAL

FULLY APPROVED	REVISE APPROVED

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SPECIFICATION

**RoHS
COMPLIANT**

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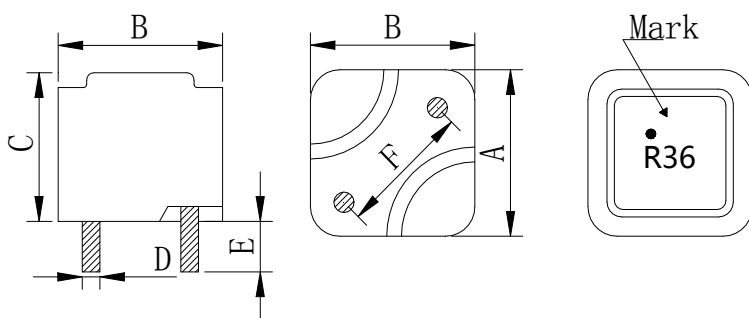
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SPECIFICATION

**RoHS
COMPLIANT**

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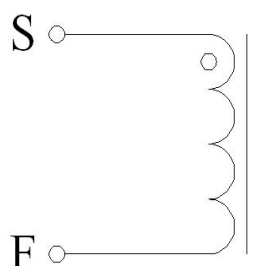
External Dimensions Unit (mm)



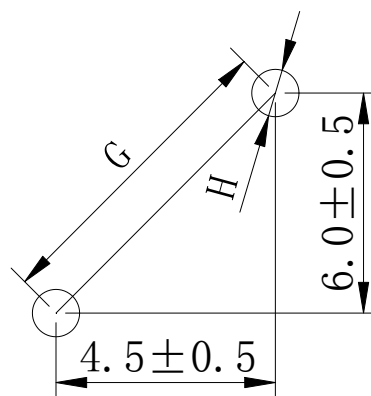
A	10.0± 0.5 (mm)
B	10.0± 0.5 (mm)
C	9.5Max (mm)
D	1.4± 0.1 (mm)
E	3.4± 0.5 (mm)
F	7.5± 0.5(mm)
G	7.5± 0.5(mm)
H	1.6 (ref)

Coating:Black

Connection



Recommended Land Pattern



Electrical Specification

Measurement Item	Unit Tolerance	Specification	Test Frequency	Test Instrument
L	uH (±20%)	0.36uH ±20%	100KHz/1V	LCR Meter Agilent/4284A or Chroma/11300
DCR	mΩ	0.87mΩ (Max)		Chroma/16502
I rms	Amps	35A	100KHz/1V	LCR Meter Agilent/4284A+42841A
I sat	Amps	50A	100KHz/1V	or Chroma/11300+3302+1320+1320S

- I rms: Current that causes a 40°C temperature rise from 25°C ambient.
- I sat: DC current at which the inductance drops 35% from it's value without current.
- All test Data is referenced to 25°C ambient.
- Operating Temperature Range: -25°C to +125°C

TEST REPORT

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Electrical Characteristic

Item	L0A	DCR	I rms	I sat
Specification	0.36uH	0.87mΩ	35Amps	50Amps
Tolerance	±20%	Max	$\Delta T \leq 40^{\circ}\text{C}$	$L \geq 65\%$
1	0.328	0.67	21.0°C	84.9%
2	0.326	0.68		
3	0.324	0.66		
4	0.325	0.65		
5	0.325	0.67		
6	0.325	0.66		
7	0.321	0.68		
8	0.320	0.66		
9	0.322	0.68		
10	0.322	0.67		
\bar{X}	0.324	0.67		
σ	0.00	0.01		

External Dimensions

Item	A	B	C	D	E	F
Specification	10.0	10.0	9.5	1.4	3.4	7.5
Tolerance	± 0.5 (mm)	± 0.5 (mm)	Max	± 0.1 (mm)	± 0.5 (mm)	± 0.5(mm)
1	10.15	10.16	7.77	1.39	3.57	7.65
2	10.14	10.12	7.80	1.38	3.49	7.63
3	10.15	10.14	7.70	1.41	3.51	7.68
4	10.11	10.11	7.74	1.40	3.48	7.63
5	10.15	10.15	7.76	1.39	3.55	7.59
6	10.14	10.15	7.70	1.41	3.50	7.67
7	10.14	10.14	7.75	1.37	3.54	7.60
8	10.16	10.15	7.66	1.40	3.47	7.53
9	10.15	10.14	7.74	1.39	3.60	7.61
10	10.13	10.14	7.70	1.38	3.56	7.65
\bar{X}	10.14	10.14	7.73	1.39	3.53	7.62
σ	0.01	0.01	0.04	0.01	0.04	0.04

Inductance measured at 100KHz/1Vrms.

Electrical specifications at 25°C. Humidity 60±10%

ELECTRICAL CHARACTERISTICS

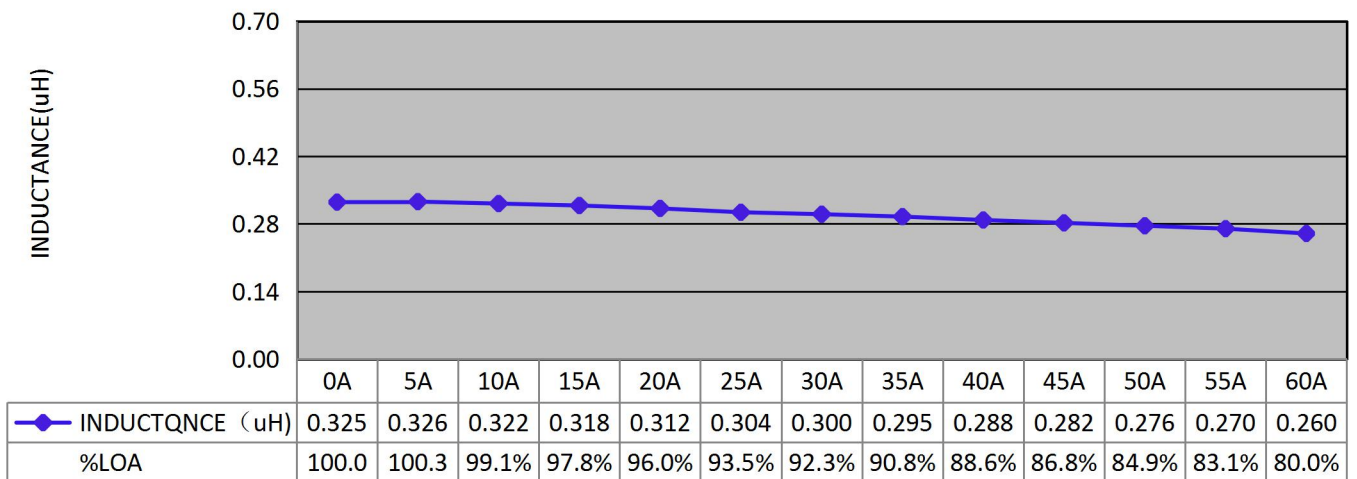
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Inductance VS DC current

IDC	L	%LOA				
0A	0.325	100.0%				
5A	0.326	100.3%				
10A	0.322	99.1%				
15A	0.318	97.8%				
20A	0.312	96.0%				
25A	0.304	93.5%				
30A	0.300	92.3%				
35A	0.295	90.8%				
40A	0.288	88.6%				
45A	0.282	86.8%				
50A	0.276	84.9%				
55A	0.270	83.1%				
60A	0.260	80.0%				

CONDITTON: 100KHZ/1.0Vrms



DC BIAS(Amps)

ELECTRICAL CHARACTERISTICS

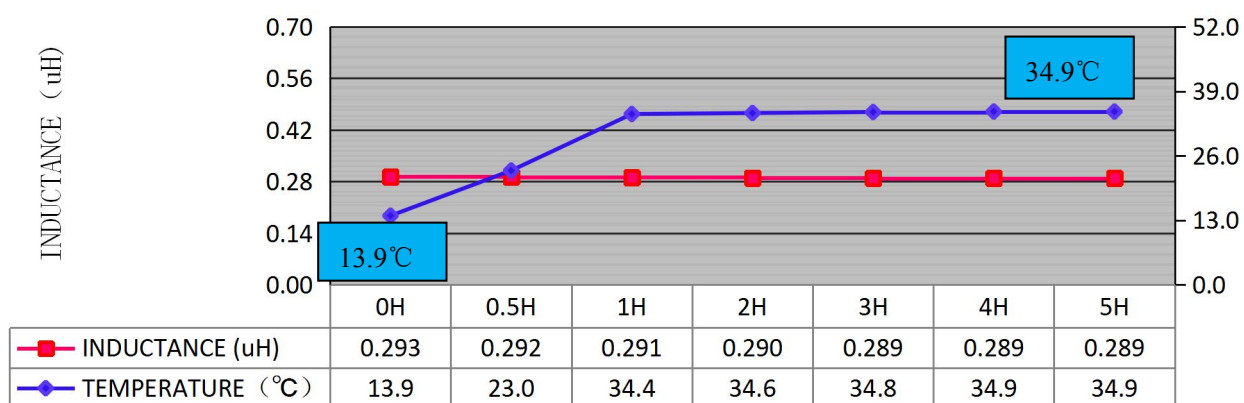
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DC current VS Temperature

Time	L (μ H)	T ($^{\circ}$ C)	Δ T($^{\circ}$ C)			
0H	0.293	13.9				
0.5H	0.292	23.0	9.1			
1H	0.291	34.4	20.5			
2H	0.290	34.6	20.7			
3H	0.289	34.8	20.9			
4H	0.289	34.9	21.0			
5H	0.289	34.9	21.0			

CONDITTON: Load 35A



Inductance VS Temperature

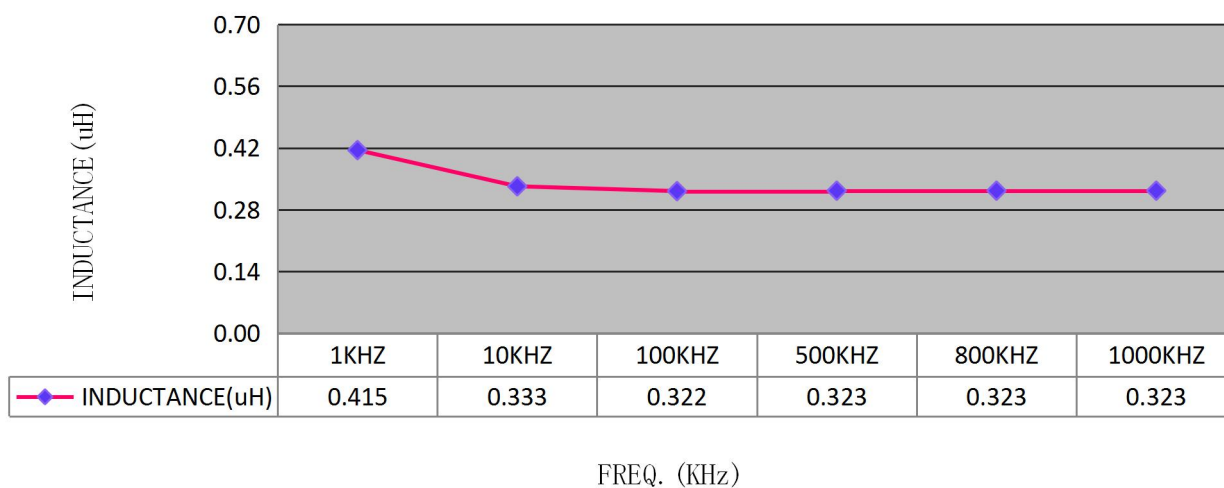
ELECTRICAL CHARACTERISTICS

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Inductance VS Frequency

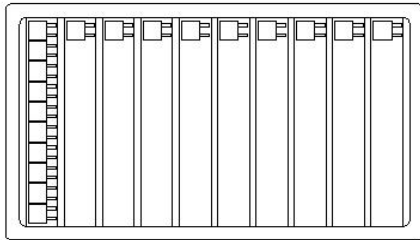
FREQ.	L (μ H)					
1KHZ	0.415					
10KHZ	0.333					
100KHZ	0.322					
500KHZ	0.323					
800KHZ	0.323					
1000KHZ	0.323					



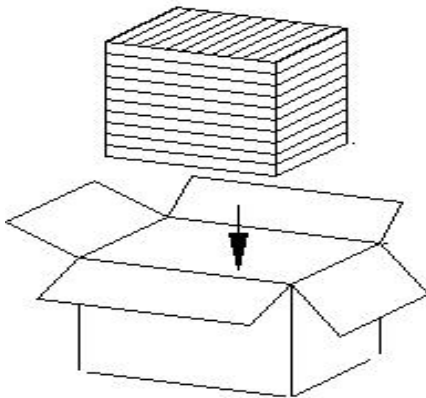
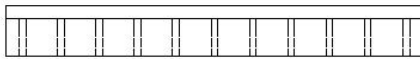
PACKING FOR SPECIFICATION

**RoHS
COMPLIANT**

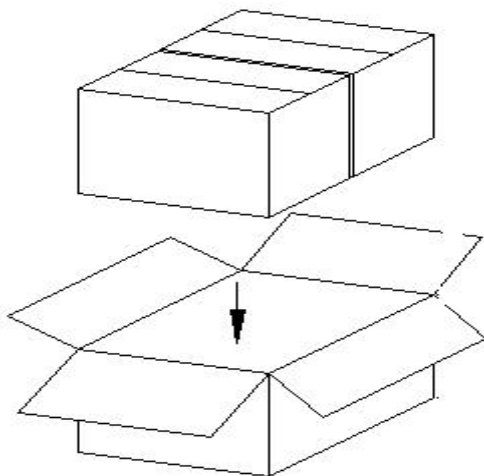
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PET Size : 215*148 *16(D)mm
Quantity : 130PCS/PET



Small box Size : 238*156*165 mm
Quantity : 10PET/Small box
1Small box/1300PCS

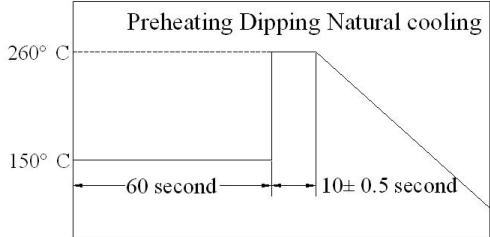
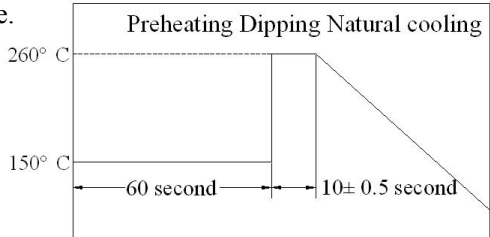
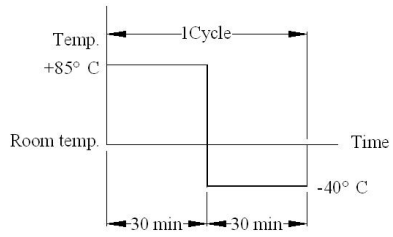


Big box Size : 328*251*175 mm
Quantity : 2 Small box/Big box
1 Big box/2600PCS

GENERAL CHARACTERISTICS

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Item	Performance	Test Condition
Mechanical Performance Test		
Solder ability Test	<p>More than 90% of terminal electrode should be covered with solder.</p> <p>After fluxing, component shall be dipped in a melted solder bath at $260\pm 5^{\circ}\text{C}$ for 10 seconds</p>	
Solder Heat Resistance	<p>Components should have not evidence of electrical and mechanical damage.</p> <p>Inductance: within $\pm 20\%$ of initial value.</p> <p>Preheat: 150°C 60 seconds</p> <p>Solder: (SnCu0.7)</p> <p>Solder Temperature: $260\pm 5^{\circ}\text{C}$</p> <p>Flux: Rosin.</p> <p>Dip time: 10 ± 0.5 seconds</p>	
Low temperature storage test	<p>1. Appearance: No damage.</p> <p>2. Inductance: within $\pm 20\%$ of initial value.</p> <p>3. No disconnection or short circuit.</p>	<p>Temperature: $-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Time: 500 ± 12 Hours</p> <p>Recovery: 4to24hrs of recovery under the standard condition after the removal from test chamber.</p>
High temperature storage test		<p>Temperature: $85^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Time: 500 ± 2 Hours</p> <p>Recovery: 4to24hrs of recovery under the standard condition after the removal from test chamber.</p>
Thermal Shock Test (Temperature cycle)		<p>$-40\pm 5^{\circ}\text{C}$ for 30 Minutes. $+85\pm 5^{\circ}\text{C}$ for 30 Minutes.</p> <p>Total: 10 Cycles</p> 
Humidity load life test		<p>Temperature: $40\pm 5^{\circ}\text{C}$ Humidity: 90-95%</p> <p>Time: 500 ± 12 Hours Load: Allowed DC current</p> <p>Recovery: 4to24hrs of recovery under the standard condition after the removal from test chamber.</p>

THE CONDITION OF REFLOW

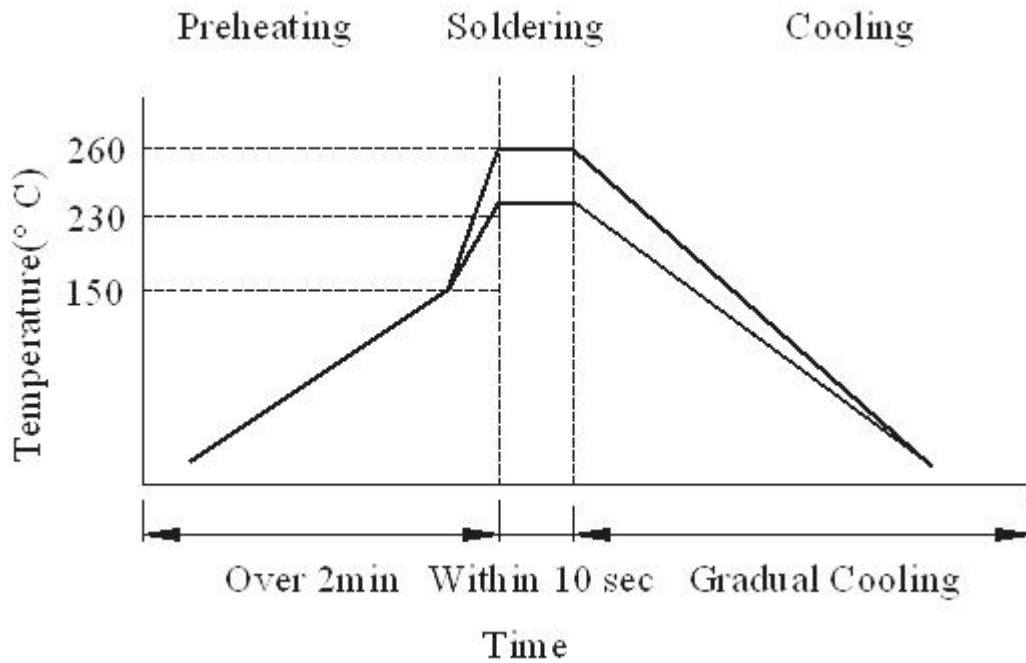
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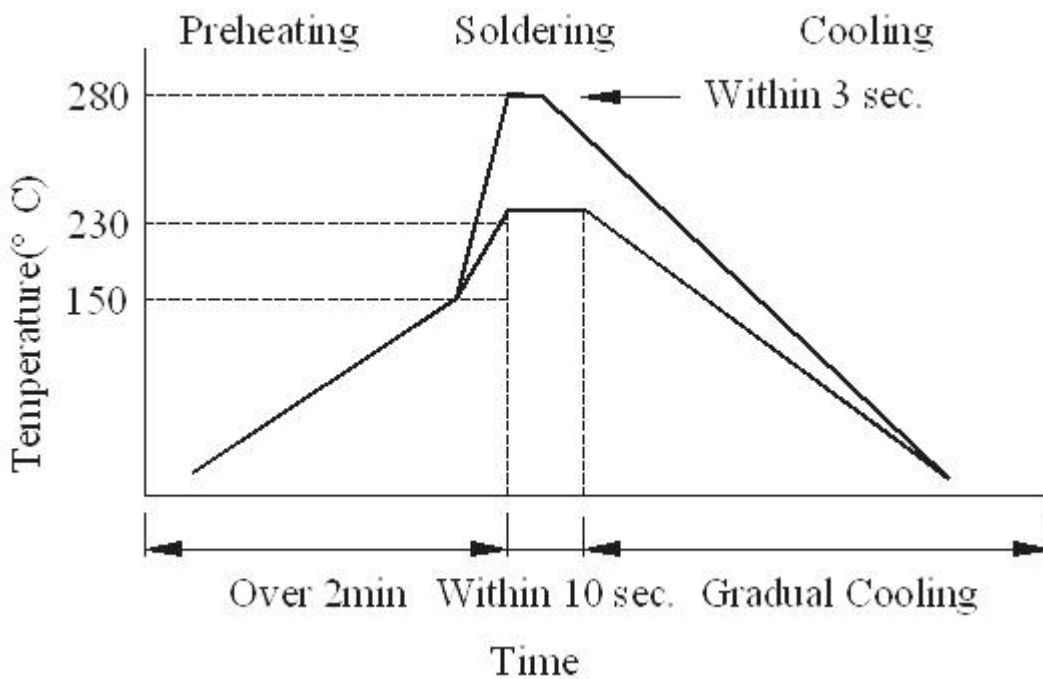
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Wave Soldering



Hand soldering



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