CUSTOMER				
CUSTOMER'S F	P/N			
DESCRIPTION		DIP Power 1	nductor	
SGTE PART NO.		PK0810-	220K	
SAMPLE NO.	S17070703	REVISION NO.	A1 DATE 2	017/7/7

SPECIFICATION FOR APPROVAL

REVISE APPROVED

SGTE 感通科技

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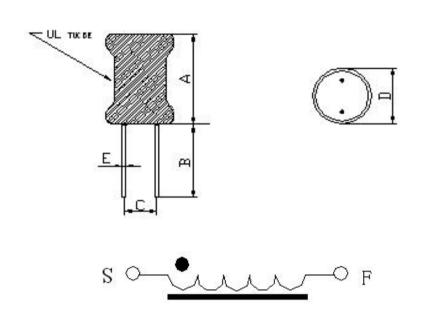
RoHS COMPLIANT

					COMPLIANT
Customers Part Number		Item Name		Date	
	_	DIP Power Induc	DIP Power Inductor		/7/7
Gan Tong Part NO.		Sample NO.	Sample NO.		A1
	PK0810-220K	S17070703	S17070703		4
Version	Change history	Before the change	Afte	er the change	Release date
A1	NEW	_			2017/7/7
DRAWN BY		CHECKED BY		APPROVED BY	
DIVAVVIV DI		CZG.KZD D1		7.1.110	· ·



Customers Part Number	Item Name	Date	
	DIP Power Inductor	2017/7	/7
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MECHANICAL & DIMENSIONS



(UNIT: mm)		
A	13.0 MAX	
В	10.0 Min	
С	5.0 ± 1.0	
D	9. OMAX	
E	0.65 ± 0.05	

ELECTRICAL REQUIREMENTS:

PARAMETER	SPECIFICA	ATION	CONDITION	TEST INSTRUMENTS
L	22± 10%	uН	1KHz/0.25V	■LCR Agilent4284A / Chroma 11300
DCR	68 max	mΩ	@ 25 ℃	■CH16502 IMPEDANCE METER
I-sat	2.70	A mps	≥70% L0A	■A4284A+A42841A LCR METER
Irms	3.20	A mps	Δ Τ ≦40℃	■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 20% from it's value without current.

[·]All test Data is referenced to 25°C ambient.

Operating Temperature Range: $-25\,^{\circ}\mathrm{C}$ to $+125\,^{\circ}\mathrm{C}$.

SPECIFICATION RoHS COMPLIANT Customers Part Number Item Name Date DIP Power Inductor 2017/7/7 Gan Tong Part NO. Sample NO. Revision No. A1 PK0810-220K S17070703 Page 2-4**Electrical Characteristic: PARAMETER** DCR L I-sat Irms UNIT $m\Omega$ A mps A mps uН **SPECIFICATION** 22± 10% 68 max 2.70 3.20 CONDITION 1KHz/0.25V **@** 25℃ ≥70% L0A **ΔT ≦40**°C 1 23.20 49.30 2 23.30 48.50 3 23.50 49.60 4 49.20 23.00 23.60 5 49.40 6 23.20 49.50 ok ok 7 23.30 49.30 49.80 8 23.40 9 23.60 50.10 10 23.30 49.20 MEAN 49.39 23.34 R 0.60 1.60 **External Dimensions:** С Ε D NO 13.0 MAX 9.0MAX 11.27 8.68 1 11.32 8.72 3 11.14 8.73 11.12 8.75 4 5 11.25 8.69 11.12 8.71 6 7 11.14 8.68 8.67 8 11.25 9 11.32 8.71 10 11.12 8.69 MEAN 11.21 8.70 R 0.20 0.08 Inductance measured at 1KHz/0.25Vrms..

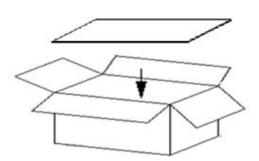
Electrical specifications at 25 ± 5 °C. Humidity 65 ± 10 %

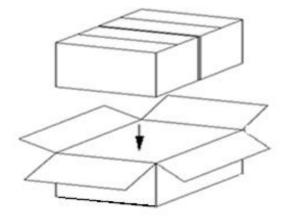
RoHS

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PACKAGING







PE bag Size: 160*170 mm

Quantity:500PCS/bag

2flat card /Small box

Small box Size: 238*156*165 mm

Quantity: 10 bag/Small box

1Small box/5000PCS

Big box Size: 328*252*182mm

Quantity: 2 Small box/Big box

1 Big box/10000PCS

Storage

- 1. Temperature and humidity conditions: Less than 40 $^{\circ}\mathrm{C}$ and 70% RH.
- Recommended products should be used within 6 months form the time of delivery.
- The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

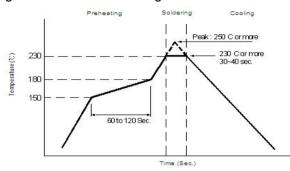
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- The use of tweezers or vacuum pick up is strongly recommended for individual components.
- Bulk handling should ensure that abrasion and mechanical shock are minimized.

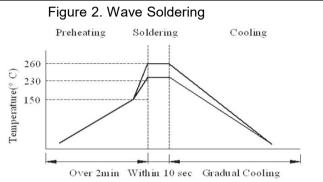


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SOLDRING CONDITIONS

Figure 1. Re-flow Soldering





Time

Soldering Iron: temperature $350\,^{\circ}\text{C}\pm10\,^{\circ}\text{C}$, dwell time shall be less than 3 sec.

Reliability and Testing Conditions/Sureface Mount Type Power Inductors

Item	Specification	Conditions		
Solderbility	More than 90% of the terminal electrode should be covered with solder.	Preheating Dipping Cooling 150°C 60 4±1. Unit: Second		
Solder Heat Resistance	Inductance within ±20% of initial value and appearance shall not break.	Preheating Dipping Cooling 150°C 60 10±0. Unit: Second		
Heat resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in 145±5℃ and 2 hour drying under normal condition.		
Cold resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in -40±2 $^{\circ}$ C and 2 hour drying under normal condition.		
Thermal shock	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 10 cycles of following condition. Step Temperature (°C) Times (min.) 1 -40±2 30 2 Room Temperature Within 3 3 145±5 30 4 Room Temperature Within 3		
Humidity Resistance	Inductance within ±20% of initial value. No disconnection or short circuit. Appearance shall not break.	After 500±12 hours in 40±2 $^{\circ}$ C and 90 to 95% humidity , and 2 hour drying under normal condition.		
* Vibration Test	Inductance within ±20% of initial value and appearance shall not break.	After vibration for 1hour, In each of three orientations sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.		