CUSTOMER				
CUSTOMER'S P	/N			
DESCRIPTION		SMD Power Inc	ductor	
SGTE PART NO.		SPRH127-22	20M	
SAMPLE NO	S17052301	REVISION NO.	A1 DATE	2017/5/23

SPECIFICATION FOR APPROVAL

FULLY APPROVED	REVISE APPROVED

SGTE 感通科技

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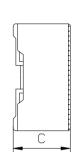
С				MPLIANT		
Custon	ners Part Number	Item Name		Date		
		SMD Power Inductor 2017		7/5/23		
Gan	Tong Part NO.	Sample NO.		Revision No.	A1	
S	PRH127-220M	S17052301		Page	4	
Version	Change history	Before the change	Afte	r the change	Release date	
AO	NEW	_		_	2017/5/23	
A1		首字没有对空		首字对空	2022/8/9	
С	RAWN BY	CHECKED BY	,	APPRO\	/ED BY	
	文奥丽	朱俊俊		连大军		

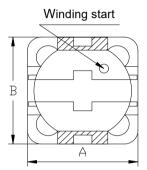
RoHS COMPLIANT

Customers Part Number	omers Part Number Item Name		Date		
	SMD Power Inductor	2017/5,	/23		
Gan Tong Part NO.	Sample NO.	Revision No.	A1		
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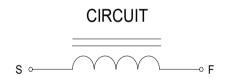
MECHANICAL & DIMENSIONS







J)	(UNIT: mm)			
A	12.0 \pm 0.3			
В	12.0 \pm 0.3			
С	8.0 MAX			



ELECTRICAL REQUIREMENTS:

PARAMETER	SPECIFICA	TION	CONDITION	TEST INSTRUMENTS
L	22± 20%	uН	10KHz/250mV	■VR102
DCR	0.046max	Ω	@ 25°C	■VR115
IDC	3.6 MAX	A mps	≧65% L0A	■TH2812C+TH1772A
		•		

·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℃ ambient.

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

CDECIEIC ATION

			SP	E	CIFIC	CAT		N		RoHS OMPLIANT
Cu	Customers Part Number			Item Name			Date			
			SMD Power Inductor		2	2017/5/23				
(Gan To	ng Part NO			Sam	ple No		Revisio		A1
		127-220M				705230		Pag		2-4
						00200		- 0.2	, ,	
		racteristic :				Ī				
	AMETER	L			CR		IDC			
	JNIT	uH			Ω		mps			
	FICATION	22± 20%			6max		6 MAX			
CON	IDITION	10KHz/250m\	<u>'</u>	@ 2	25℃	≧6	55% L0A			
	1	21.3		0.0	038	-				
	2	20.9		0.0	038					
	3	22.6		0.0	038	1				
	4	23.4		0.0	037					
	5	19.9		0.0	037					
6 7 8		21.6		0.038 0.038 0.0.38			ok			
		21.8								
		22.0								
	9	21.7		0.0	038					
	10	21.3		0.038						
М	IEAN	21.65								
	R	3.50		0.0)38					
Exter	nal Dime	ensions:								
	Α	В	C	;						
NO	12.0±0.3	3 12.0±0.3	8.0 N	ИΑХ						
1	12.00	12.08	7.6	0						
2	12.05	12.10	7.7	0						
3	12.00	12.12	7.5	0						
4	12.00	11.98	7.6	0						
5	12.00	12.08	7.6	0						
6	12.00	12.08	7.6							
7	12.00	12.09	7.7	0						
8	12.00	11.99	7.7							
9	12.00	12.07	7.7							
10	12.00	12.08	7.7							
MEAN	12.01	12.07	7.6							
R	0.05	0.14	0.2							

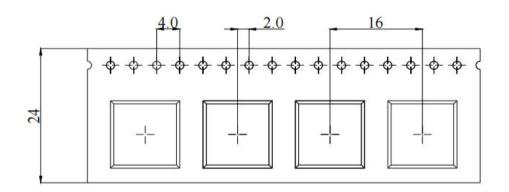
Electrical specifications at 25±5℃. Humidity 60±10%



Customers Part Number	Item Name	Name Date	
	SMD Power Inductor	2017/5/2	3
Gan Tong Part NO.	Sample NO.	Revision No.	A1
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PACKAGING





Carrier tape (W)	Carrier tape (P)	Reel Size		inner box QTY (PCS)	outer box QTY (PCS)	封带方式
24mm	16mm	13inch	500	1000	2000	冷封

package size:

1.packaging bag: 375*400mm (REF.) . 2.inner box : 340*70*340mm (REF.) . 3.outer box: 352*155*365mm (REF.) .

Storage

- 2. 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

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



Customers Part Number	Item Name	Date		
	SMD Power Inductor	2017/5/2	3	
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SOLDRING CONDITIONS

Figure 1. Re-flow Soldering

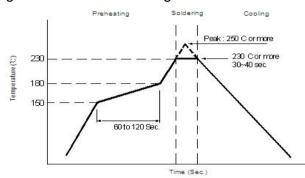
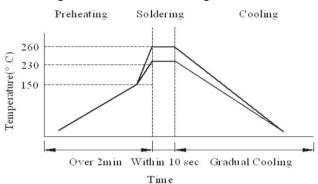


Figure 2. Wave Soldering



Soldering Iron: temperature $350^{\circ}\text{C} \pm 10^{\circ}\text{C}$, 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.	260°C 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℃ 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℃ 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 at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.		