CUSTOMER	
CUSTOMER' S P/N	
DESCRIPTION	Common Mode Filter
SGTE PART NO.	CW2012-900
SAMPLE NO. <u>S1</u>	7101704 REVISION NO. <u>AO</u> DATE 2017/10/17

## SPECIFICATION FOR APPROVAL

REVISE APPROVED

# SGTE 感通科技

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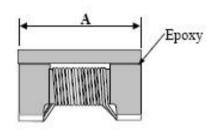
RoHS COMPLIANT

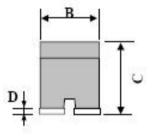
COMPLIA						
Customers Part Number		comers Part Number Item Name  Common Mode Filter		Date		
				2017/10/17		
Ga	n Tong Part NO.	Sample NO.		Revision No.	A0	
	CW2012-900	S17101704		Page	4	
Version	Change history	Before the change	Afte	r the change	Release date	
AO	NEW	_		_	2017/10/17	
DRAWN BY		CHECKED BY		APPRO'	VED BY	
	贺芙蓉	刘俊良		田一		

RoHS COMPLIANT

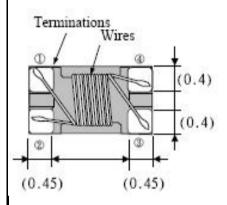
Customers Part Number	Item Name	Date		
	Common Mode Filter	2017/10/17		
Gan Tong Part NO.	Sample NO.	Revision No.	A0	
CW2012-900	S17101704	Page	1-5	

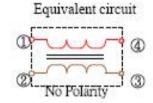
#### **MECHANICAL & DIMENSIONS**

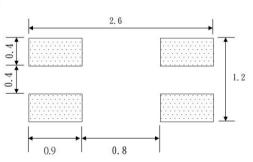




(UNIT: mm)				
A	$2.0 \pm 0.2$			
В	$1.2\pm0.2$			
С	$1.2\pm0.2$			
D	$0.2 \pm 0.1$			







#### **ELECTRICAL REQUIREMENTS:**

PARAMETER	SPECIFICATION		CONDITION	TEST INSTRUMENTS			
Z	90±25%	Ω	100MHz	■TEST EQUIPMENT: TH2818			
DCR	0.3 max	Ω		■TEST INSTRUMENTS:TH1775			
IDC	400.0	mA	MAX	■ TEST INSTRUMENTS:CH502BC			

- $\bullet$  The CB series can be used on high current circuits due to its low DC resistance. It can match power lines to a maximum of 300mA DC.
- All test Data is referenced to  $25\,^{\circ}\!\!\!\mathrm{C}$  ambient.
- Operating Temperature Range: -25℃ to +125℃.

# TEST DATA

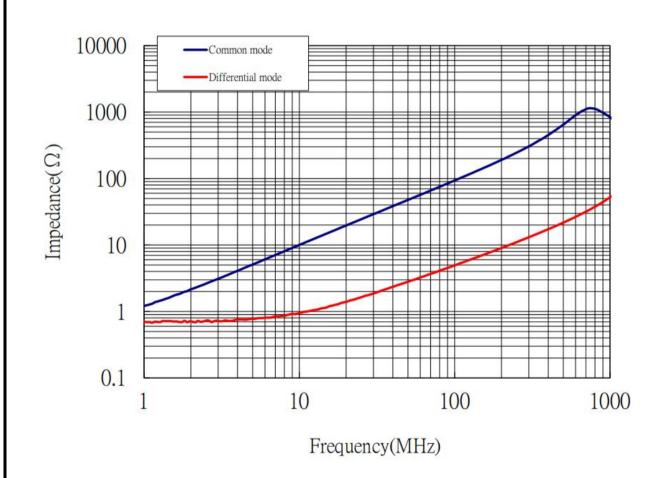
## DIMENSION & ELECTRIC CHARACTER

Customers Part Number Sample NO.				Gan Tong	Part NO.	CW2012-	-900		
		S17101704		Page		2-5			
TEMP.	25 ∘ C	HUMIDITY	65%	INSPECT	ION Q'TY	5 PCS	5 PCS		
	A	В	С	D			Z	DCR	
ITEM	mm	mm	mm	mm			Ω	Ω	
SPEC	$2.0 \pm 0.2$	$1.2 \pm 0.2$	1.2± 0.2	$0.2 \pm 0.1$			90±25%	0.3 max	
TEST FREQ.							100MHz		
1	2.05	1.22	1.20	0.20			85.00	0.25	
2	2.01	1.22	1.20	0.19			93.00	0.24	
3	2.03	1.20	1.19	0.21			85.00	0.21	
4	2.00	1.20	1.20	0.19			92.00	0.25	
5	2.04	1.21	1.20	0.20			90.00	0.23	
6									
7									
8									
9									
10									
AVG.	1.01	0.61	0.60	0.10			89.00	0.236	
OK/NG	OK	OK	OK	OK			OK	OK	

RoHS COMPLIANT

Customers Part Number	Item Name	Date		
	Common Mode Filter	2017/10/	17	
Gan Tong Part NO.	Sample NO.	Revision No.	A1	
CW2012-900	S17101704	Page	3-5	

## Typical Impedance v.s. Frequency Curve

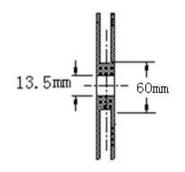


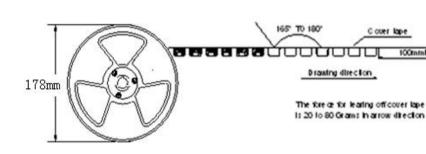
- Internal silver printed layers and magnetic shielded structures to minimize crosstalk.
- •It has sharp impedance characteristics at desirable frequency and does not affect the signal

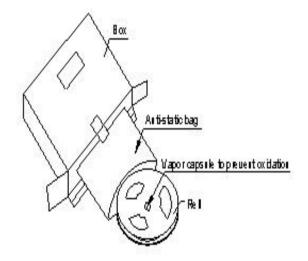
RoHS COMPLIANT

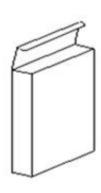
Customers Part Number	Item Name	Date			
	Common Mode Filter	2017/10	0/17		
Gan Tong Part NO.	Sample NO.	Revision No.	A0		
CW2012-900	S17101704	Page	4-5		

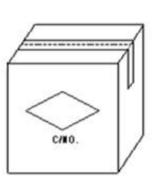
#### **PACKAGING**











#### **Packaging Quantity**

					Unit: mm
Inner	Carton		Qute	er Carton	
Reel size	Quantity/Reel	Inside the box size	Quantity	Carton size	Quantity
¢ 180	2000pcs	185*185*95	20000pcs	190*190*390	80000pcs

#### Storage

- 2. Recommended products should be used within 6 months form the time of delivery.
- 3. 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.

RoHS
COMPLIANT

Customers Part Number	Item Name	Date		
	SMD Power Inductor	2017/10/17		
Gan Tong Part NO.	Sample NO.	Revision No.	A0	
CW2012-900	S17101704	Page	5-5	

#### **SOLDRING CONDITIONS**

Figure 1. Re-flow Soldering

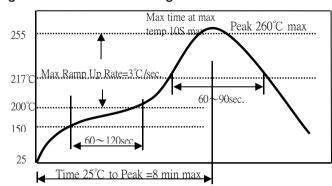
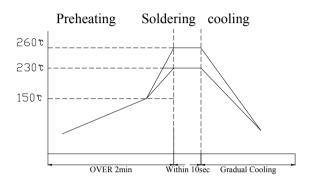


Figure 2. Wave Soldering



Soldering Iron: temperature  $350^{\circ}$ C± $10^{\circ}$ 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  150v  60s  4±1S-
Solder Heat Resistance	Inductance within ±20% of initial value and appearance shall not break.	Preheating dipping cooling
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	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°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 at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.