

SAW Components Data Sheet

CQTSF1270M00.00

Customer's Approval Certificate			
Complies with Directive 2002/95/EC (RoHS)			
Please return this Page Via email as a certification of Your approval			
Checked & Approval by:	Date:		

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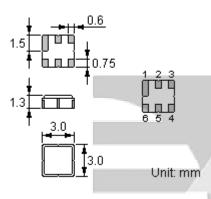
SAW Components SAW Filter for Telecommunications

Features

- Low-loss RF filter for mobile systems
- Low amplitude ripple
- No matching network required for operation at 50Ω
- Ceramic package for Surface Mounted
 Technology (SMT)
- Lead-free production and **RoHS** compliant

Package Dimensions

Ceramic Package: DCC6C



Pin Configuration

-	2	Input
	5	Output
	1, 3, 4, 6	Ground
-		

Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V _{DC}	0	V
Operating Temperature Range	TA	-40 ~ +85	°C
Storage Temperature Range	<i>T</i> _{stg}	-40 ~ +85	°C

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SAW Components

SAW Filter for Telecommunications

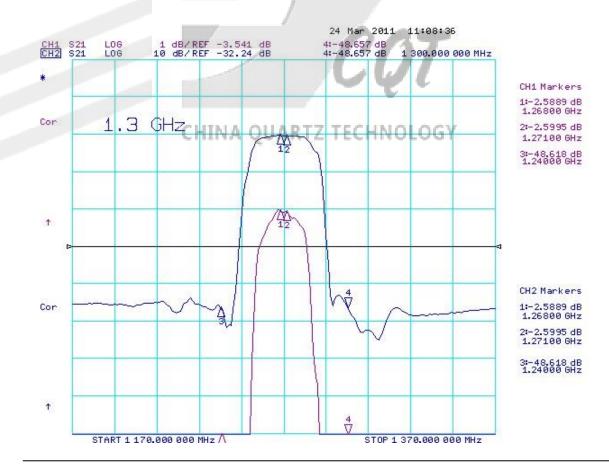
Electrical Characteristics

	Minimum	Typical	Maximum	Unit
f _C		1270		MHz
IL				
		2.5	3.0	dB
		5	30	ns
α				
	40	48		dB
	40	48		dB
	35	40		dB
	30	37		dB
			8	deg
Δα		2**	5 *) *(deg
Δα		0.3**	0.5 *) *(dB
The		1.5 ; 1	2.0 : 1	
		1.5 ; 1	2.0 : 1	
		50		Ω
	<i>Ι</i> <u>L</u> α Δα	fc IL α 40 40 35 30 Δ α	f_c 1270 lL 2.5 α 5 α 5 α 5 α 5 α 2.5 α 5 α 2.5 α 2.5 α 2.5 $\Delta \alpha$ 0.3** 0.3** $1.5; 1$ 1.5; 1 1.5; 1	f_c 1270 IL 1270 IL 2.5 3.0 $$ 2.5 3.0 σ 5 30 α 40 48 40 48 40 30 37 8 $\Delta \alpha$ 2^{**} 5^*) *($\Delta \alpha$ 0.3^{**} 0.5^*) *($\Delta \alpha$ 0.3^{**} 0.5^*) *(1.5 ; 1 2.0 : 1 1.5 ; 1 2.0 : 1

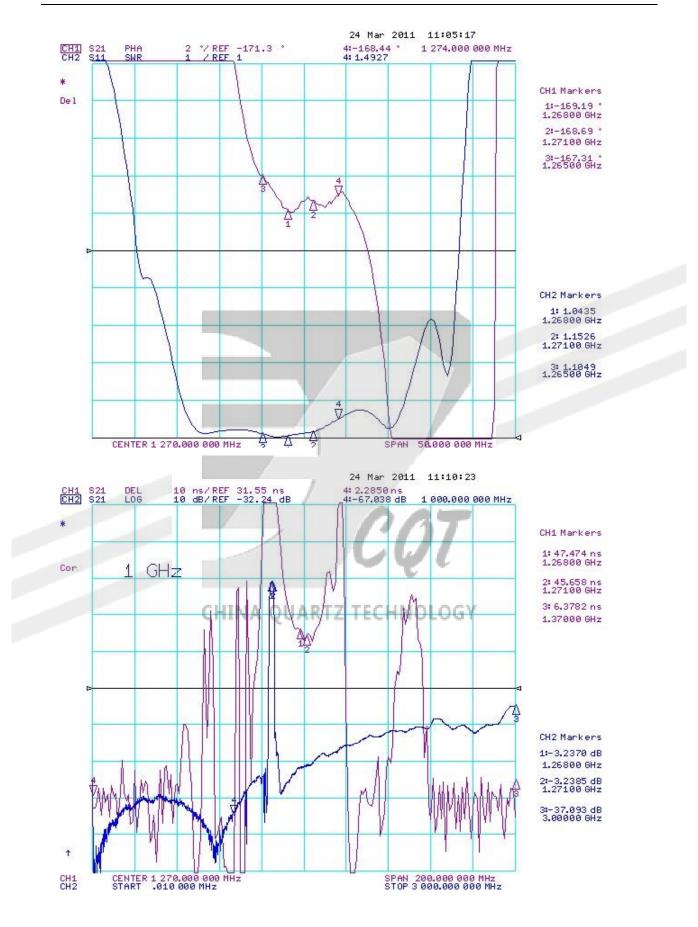
(b) RoHS Compliant *): -40°C ** : +25°C

*(:+85℃ ① Electrostatic Sensitive Device

Typical Frequency Response



Version230311



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Stability Characteristics

	Test item	Condition of test		
1	Mechanical shock	(a) Drops: 3 times on concrete floor	r	
-		(b) Height: 1.0 m		
2	Vibration resistance	(a) Frequency of vibration: 10~55H:	z (b) Amplitude: 1.5 mm	
2		(c) Directions: X,Y and Z	(d) Duration: 2 hours	
3	Moisture resistance	(a) Condition: 40°C, 90~95% R.H.	(b) Duration: 96 hours	
5		(c) Wait 4 hours before measureme	ent	
	Climatic sequence	(a) +70°C for 16 hours (b)	+55°C for 24 hours, 90~95% R.H.	
4		(c) -25°C for 2 hours (d)	+40°C for 24 hours, 90~95% R.H.	
		(e) Wait 4 hours before measureme	ent	
5	High temperature exposure	(a) Temperature: 70°C	(b) Duration: 250 hours	
5		(c) Wait 4 hours before measureme	ent	
	Thermal impact	(a) +70°C for 30 minutes \Rightarrow -25°C for	or 30 minutes repeated 3 times	
6		(b) Wait 4 hours before measureme	ent	

Requirements: The SAW filer shall remain within the electrical specifications after tests.

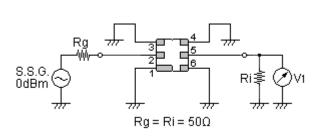
Remarks

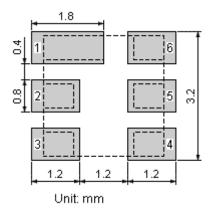
- SAW devices should not be used in any type of fluid such as water, oil, organic solvent, etc.
- Be certain not to apply voltage exceeding the rated voltage of components.
- Do not operate outside the recommended operating temperature range of components.
- Sudden change of temperature shall be avoided, deterioration of the characteristics can occur.
- Be careful of soldering temperature and duration of components when soldering.
- Do not place soldering iron on the body of components.
- Be careful not to subject the terminals or leads of components to excessive force.
- SAW devices are electrostatic sensitive. Please avoid static voltage during operation and storage.
- Ultrasonic cleaning shall be avoided. Ultrasonic vibration may cause destruction of components.

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Test Circuit



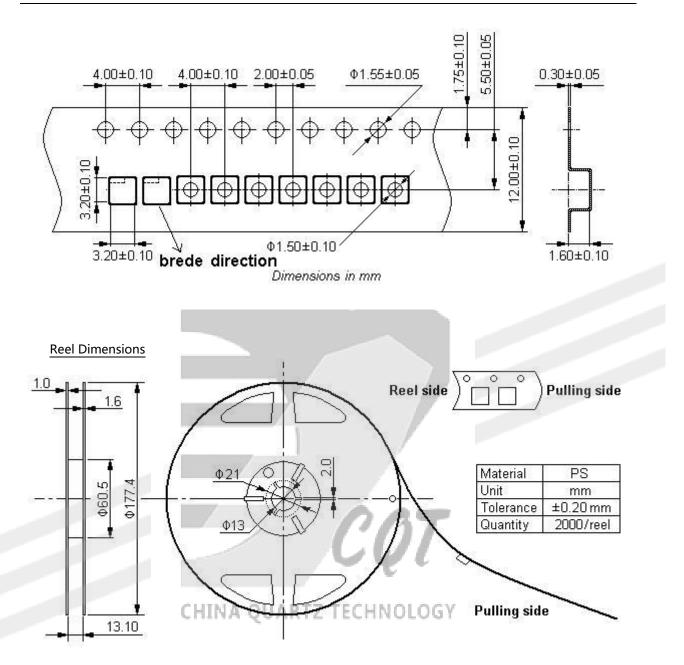




Packing Information

Carrier Tape

Version230311



Outer Packing

Туре	Quantity	Dimension	Description	Weight
Carton Box I	10000	190×190×95	anti-static plastic bag & carton box	0.85
Carton Box II	20000	190×190×190	1 reel / bag 5 bags / box (10000 pcs) 10 bags / box (20000 pcs)	1.80
		Unit: mm		Unit: kg

Recommended Soldering Profile

