



SAW Components
Data Sheet
CQTSF915M00.00

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:

Hangzhou Freq-control Electronics Technology Co.,Ltd.

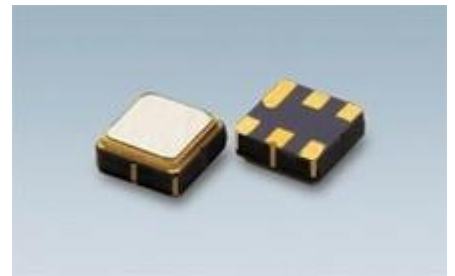
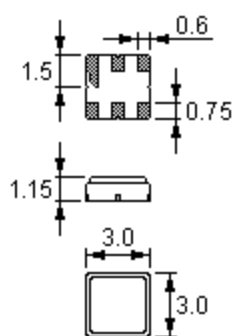
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Features

- 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: **DCC6D**

Unit: mm, approx weight 37mg

Pin Configuration

2	Input
4, 6	Output
1, 3, 5	Grounded

Marking**Top View, Laser Marking**

"ND": Manufacturer's mark "F": SAW filter
 "XXXX": Part number * : Terminal 1
 "★": Lot number (The code shown below varies in a 4-year cycle)

Code	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	m	
2016	n	p	q	r	s	t	u	v	w	x	y	z

Maximum Ratings

Rating		Value	Unit
Input Power Level	P	20	dBm
DC Voltage	V_{DC}	12	V
ESD Voltage (HB)	V_{ESD}	150	V
Operating Temperature Range	T_A	-45 ~ +125	°C
Storage Temperature Range	T_{stg}	-45 ~ +125	°C

Electrical Characteristics

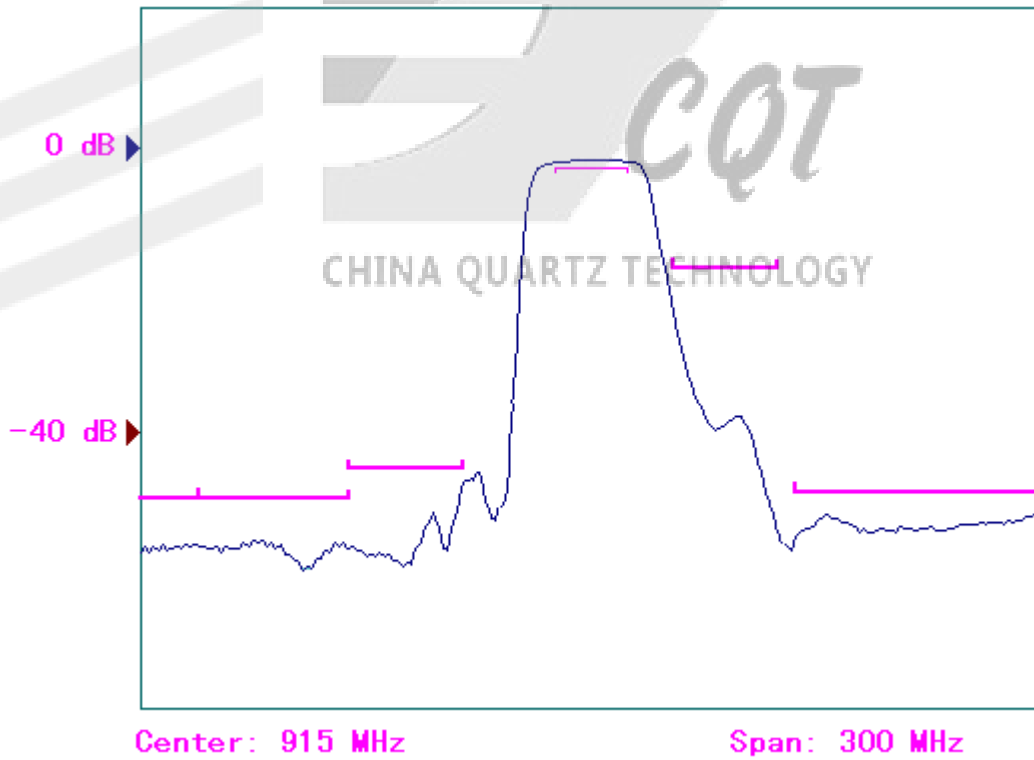
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		915		MHz
Insertion Loss @902.... 928 MHz	$//L$		2.3	3.2	dB
Passband Ripple @902.... 928 MHz			0.5	1.2	dB
Absolute Attenuation	α				
DC 800MHz		52	60		dB
800 845 MHz		45	55		dB
845 879MHz		45	50		dB
950.... 990MHz		25	32		dB
990.... 1200MHz		50	60		dB
1500.... 2000MHz		32	40		dB
VSWR @902.... 928 MHz			1.4	2.0	
Input / Output Impedance (Nominal)		50 single-ended/100 Balanced			Ω

RoHS Compliant

Electrostatic Sensitive Device

Typical Frequency Response — Preliminary

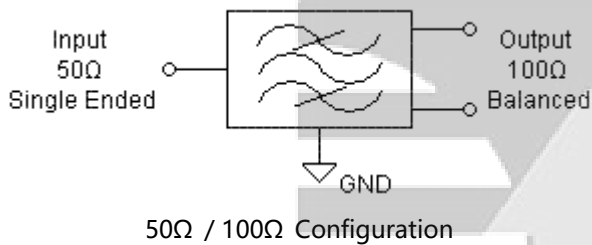
S21



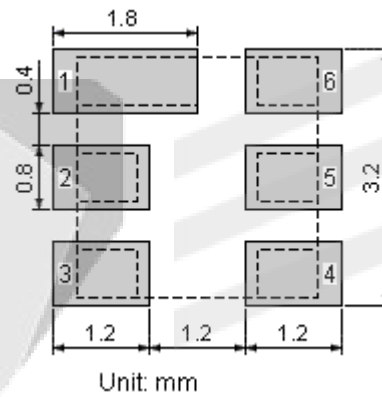
Remarks

- 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.

Test Circuit

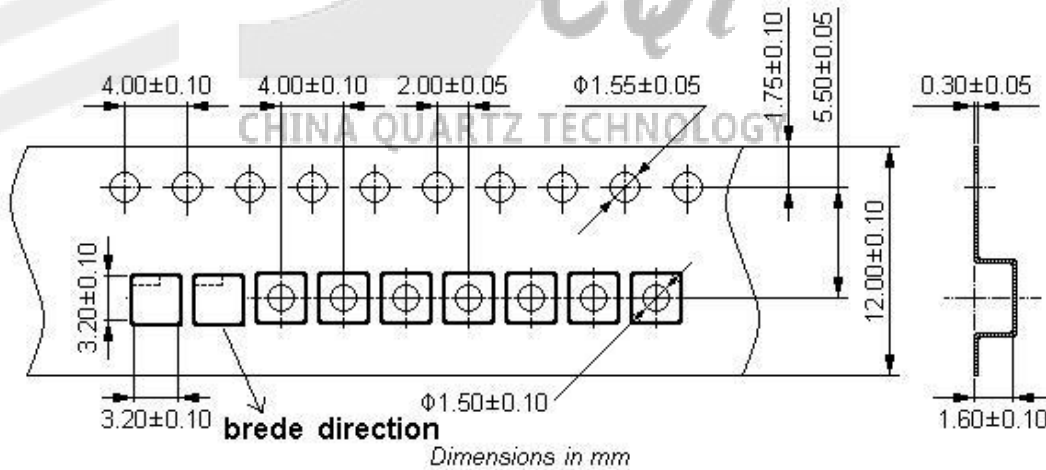


Recommended Land Pattern

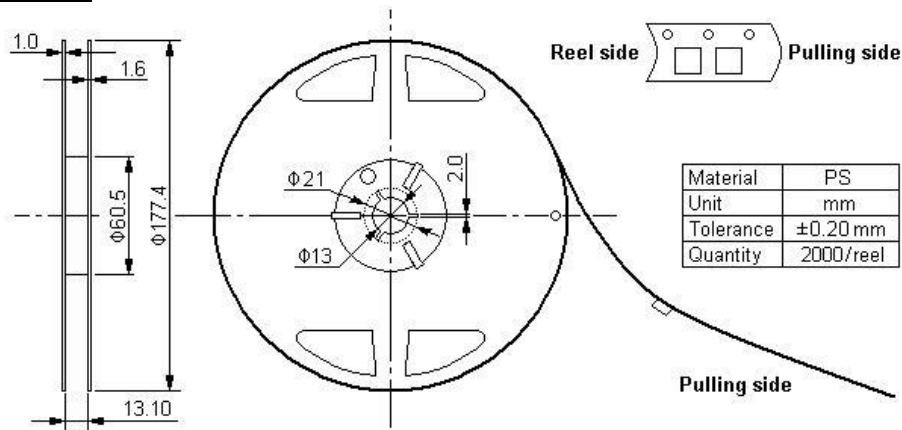


Packing Information

Carrier Tape



Reel Dimensions



Outer Packing

Type	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

