



SAW Components
Data Sheet
CQTSF866M00.00

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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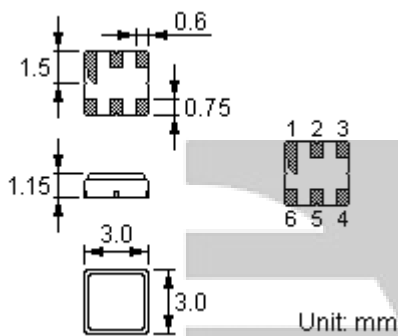
sales@@csimc-freqcontrol.com

Features

- Low-loss RF filter
- 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
4, 6	Output
1, 3	Case Ground
1, 3, 5	To Be Grounded

Marking

DSF*
.3145

- (1) Laser Marking
- (2) D: Manufacture's logo
- (3) SF: SAW Filter
- (4) 3145: Part Number
- (5) : Terminal 1
- (6) *: 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	i	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	15	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

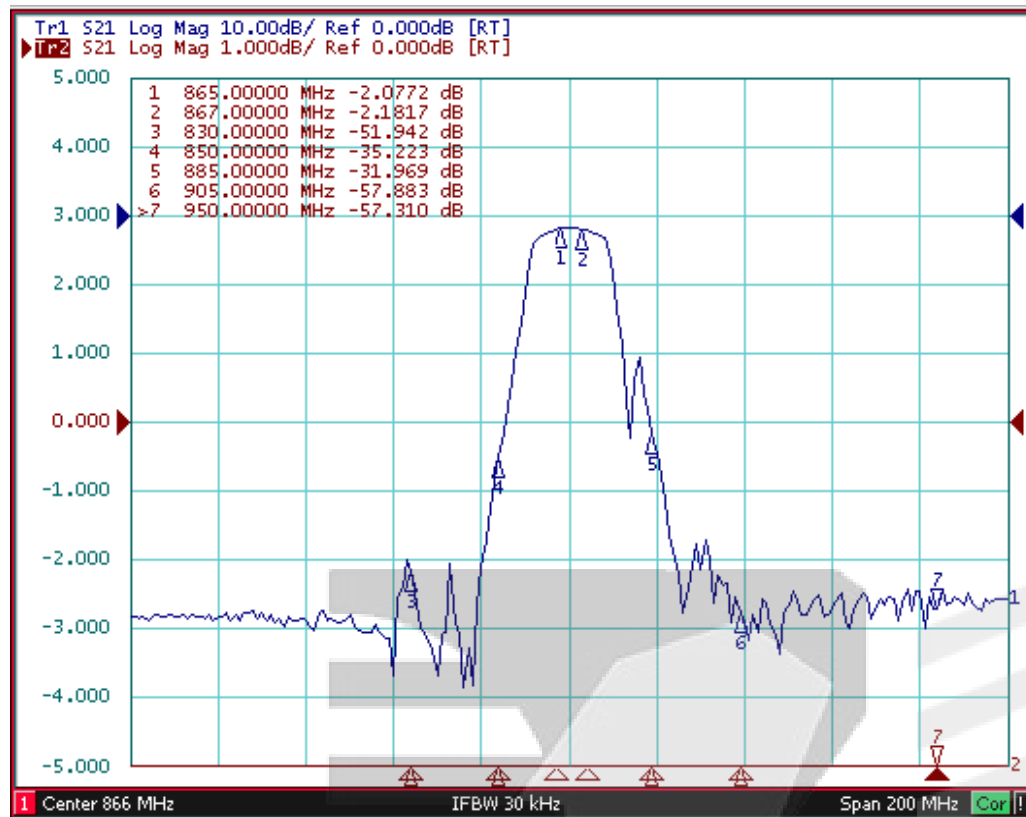
Item	Minimum	Typical	Maximum	Unit
Center Frequency	f_c	866.0		MHz
Insertion Loss @865.... 867 MHz	IL	2.2	2.7	dB
Passband Ripple @865.... 867 MHz		0.2	0.5	dB
Absolute Attenuation	α			
DC 800MHz	52	57		dB
800 ... 830 MHz	45	50		dB
830 ... 850MHz	30	35		dB
885.... 905MHz	25	30		dB
905.... 1500MHz	47	54		dB
1500.... 2000MHz	40	45		dB
VSWR @865.... 867 MHz		1.3	2.0	
Input / Output Impedance (Nominal)		50/100		Ω

 RoHS Compliant

 Electrostatic Sensitive Device

Typical Frequency Response

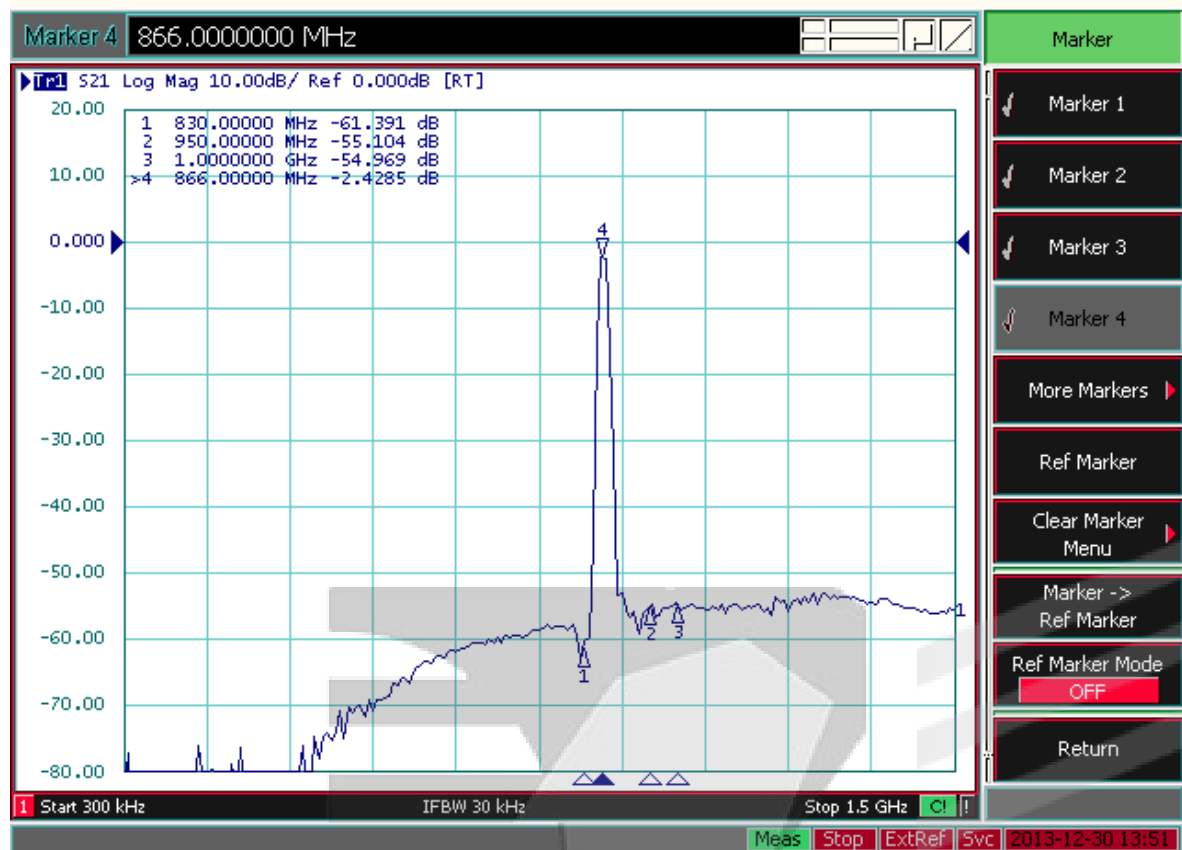
S21



S11 S22

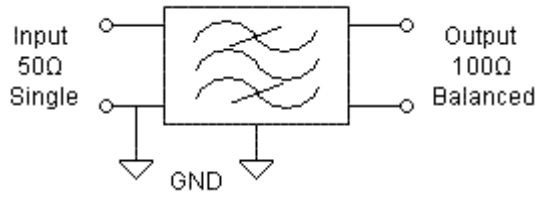


Far Side

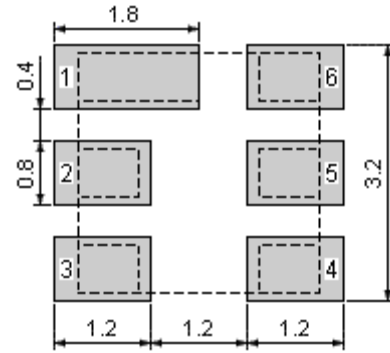


Remarks

- 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.



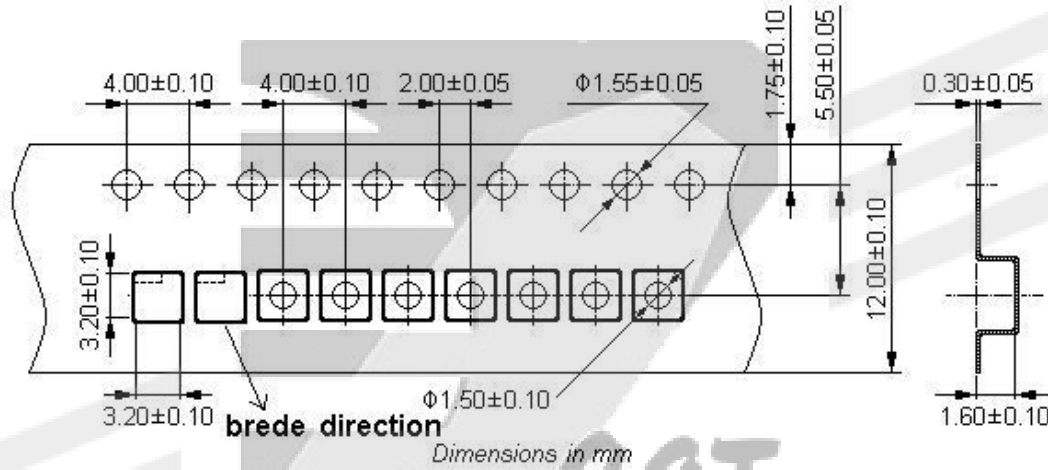
50Ω / 100Ω Configuration



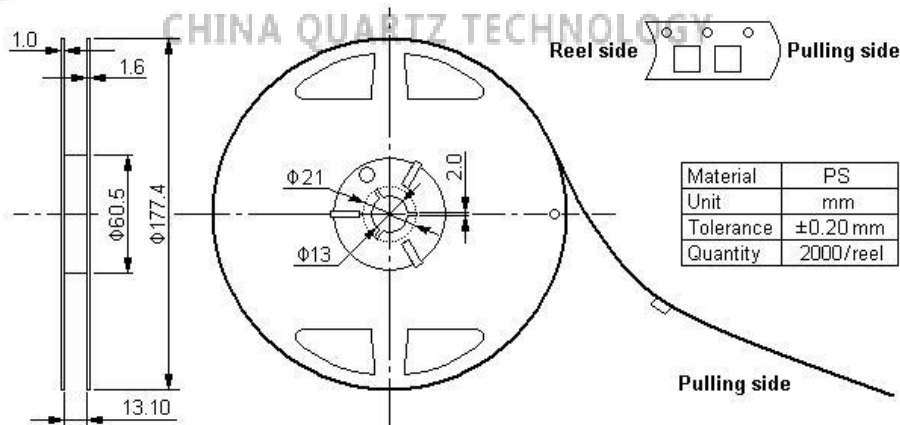
Unit: mm

Packing Information

Carrier Tape



Reel Dimensions



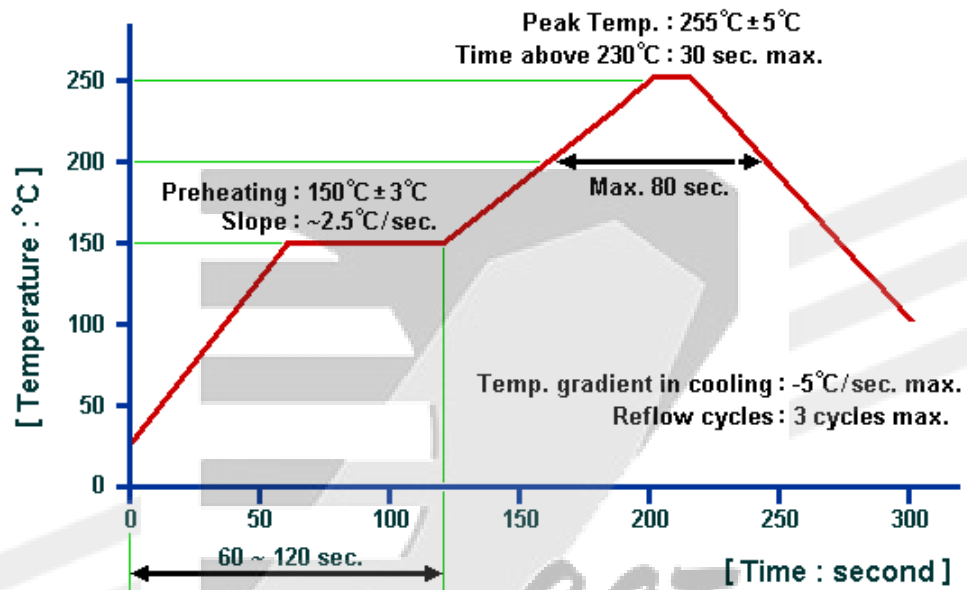
Outer Packing

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



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