SAW Components
Data Sheet
CQTSF315M00.02

Customer's Approval Certificate	
Complies with Directive 2002/95/EC (RoHS)	
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Checked & Approval by:	Date:

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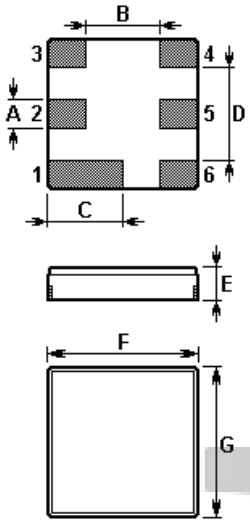
The **CQTSF315M00.02** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6C** case for remote control.

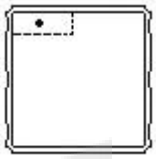
1. Package Dimension (DCC6C)



Pin	Configuration
2	Input / Output
5	Output / Input
1, 3, 4, 6	Case Ground

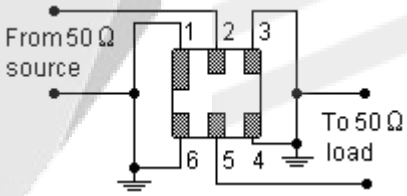
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	0.6	E	1.1
B	1.5	F	3.0
C	1.5	G	3.0
D	1.8		

2. Marking

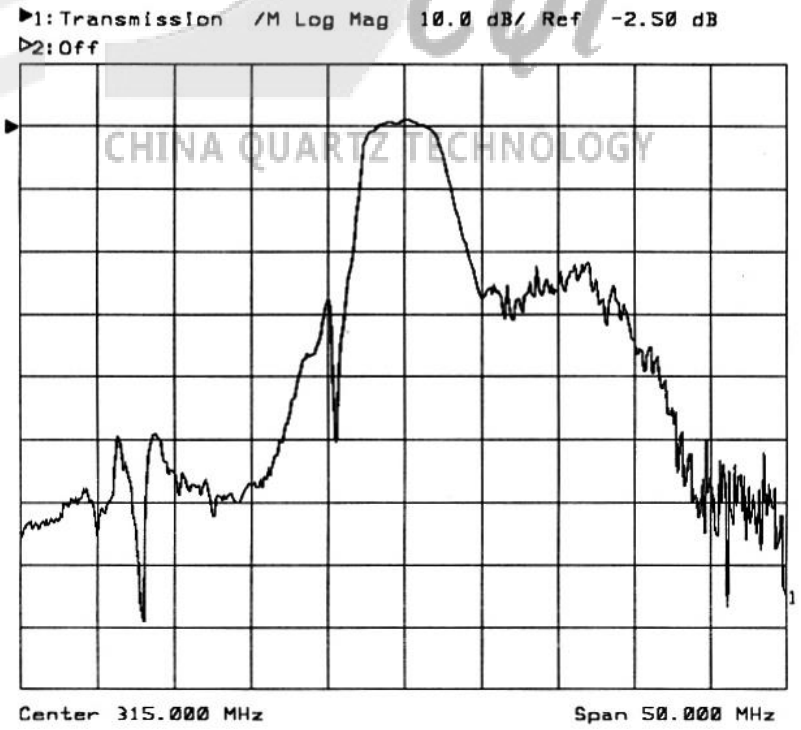


Laser Marking

3. Test Circuit



4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	20	dBm
DC Voltage	V_{DC}	7.5	V
Storage Temperature Range	T_{stg}	-50 to +100	℃
Operable Temperature Range	T_A	-40 to +85	℃

5-2. Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	f_C		315.00		MHz
3dB Bandwidth	BW_3		4.6		MHz
Insertion Loss 314.50 …. 315.50 MHz	IL	--	1.5	3.0	dB
Response Variation 314.50 …. 315.50 MHz	$\Delta\alpha$		0.6	1.5	dB
Relative Attenuation (relative to IL) α_{rel} 295.00 MHz 335.00 MHz		 50 45	 60 50	 -- --	 dB dB
Input and Output VSWR 314.50 …. 315.50 MHz			1.5	2.5	
Input / Output Impedance			50 Ω		

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR≤ 1.2:1.
3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
7. For questions on technology, prices and delivery, please contact our sales offices or e-mail sales@cqtgroup.com