

The ACTF1459/914.0-959.0/QCC8C is a low-loss, compact and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic QCC8C case. It is designed as RF duplexer for cordless telephone CT1. Centre frequency is 914.500/959.500 MHz.

2.

1.Package Dimension (QCC8C)



Pin	Configuration		
6	Ant		
1	Port 1 (Rx/Tx)		
3	Port 2 (Tx/Rx)		
5,7	Ant - Ground		
2	Port 1 - Ground		
4,8	Case / Port 2-Ground		

Sign	Data (unit: mm)	Sign Data (unit: mm)		
А	2.08	Е	1.20	
В	0.60	F	1.35	
С	1.27	G	5.00	
D	2.54	Н	5.00	

3. Test Circuit



4.Features

- I Compact RF duplexer for cordless telephone CT1
- I No matching network required for operation at 50.
- I Ceramic package for Surface Mounted Technology (SMT)

In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

ISO9001: 2000 Registered - Registration number 6830/2

For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK http://www.actcrystals.com Issue : 1 C1 Date : SEPT 04



5.Performance

ITEM	SYMBOL	RATING	UNIT
Input Power	Pin	15	dBm
DC Voltage	V _{DC}	3	V
Operating Temperature Range	T _{opr}	-10 ~ +55	°C
Storage Temperature Range	T _{stg}	-40 ~ +85	°C

Characteristic		Minimum	Typical	Maximum	Units
Centre frequency Port 1 Port 2	fc		959.500 914.500		MHz MHz
Maximum Insertion attenuation	α _{MAX}				
Port1: 959.000960.000 MHz		_	3.5	4.5	dB
Port2: 914.000915.000 MHz			3.5	4.5	dB
Amplitude ripple(p-p)					
Port 1: 959.000960.000 MHz		_	0.7	2.0	dB
Port 2: 914.000915.000 MHz		_	0.7	2.0	dB
Absolute attenuation Port 1	α				
914.000915.000 MHz		30	35		dB
Absolute attenuation Port 2	α				
959.000960.000 MHz		30	35	_	dB
Temperature coefficient of frequency	T _{Cf}	_	-30		ppm/K

5-2. Electronic Characteristics

i CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

 Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50 Ω test system with VSWR≤1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency, f_C. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.

2. Unless noted otherwise, specifications apply over the entire specified operating temperature range.

3. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.

4. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.

5. 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.

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