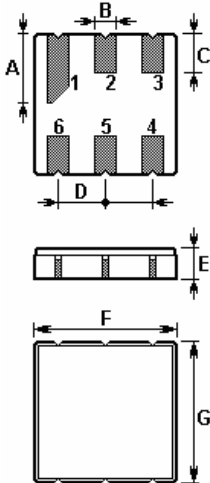


The ACTF9038/959.50/DCC6 is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic DCC6 case with center frequency 959.500 MHz.

1. Package Dimensions (DCC6)



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

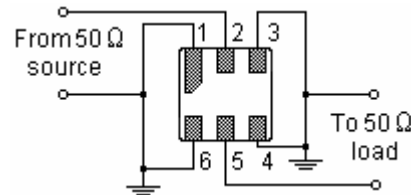
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.90±0.1	E	1.35±0.15
B	0.64±0.1 (x6)	F	3.80±0.15
C	1.00±0.1 (x5)	G	3.80±0.15
D	1.27±0.1 (x4)		

2. Marking

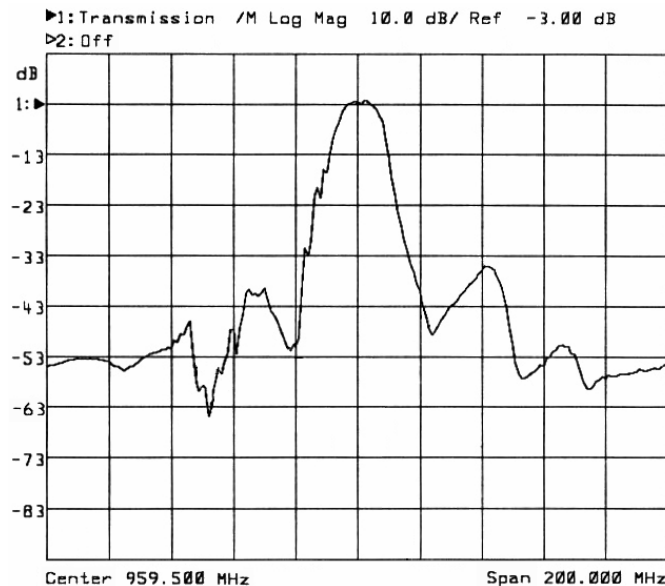
ACTF
9038

Laser Marking

3. Test Circuit



4. Typical Frequency Response



In keeping with our ongoing policy of product evolution 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>

5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	12	V
Operable Temperature Range	T_A	-10 to +65	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C

5-2. Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	f_C		959.50		MHz
Insertion Loss	IL	--	3.0	4.5	dB
Amplitude Ripple	$\Delta\alpha$	--	--	1.5	dB
Absolute Attenuation	α				
860.00 909.50 MHz		35	43	--	dB
909.50 939.50 MHz		30	37	--	dB
984.00 1013.0 MHz		27	32	--	dB
1013.0 1160.0 MHz		38	47	--	dB
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 50 Ω test system with $V_{SWR} \leq 1.2:1$.
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.

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