

SAW BANDPASS FILTER

PART NO.: ACTF8042/866MHz/10nH/DCC6

Product Type:	Customer:
SAW Filter	
Part NO.:	Customer Part NO.:
ACTF8042/866MHz/10nH/DCC6	
	Issued Date:

PREPARED BY	CHECKED BY	APPROVED BY

In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

ISO9001 Registered

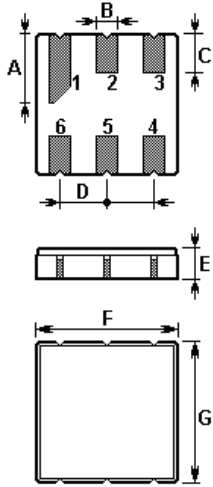
For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

The **ACTF8042** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6** case with center frequency **866.000** MHz

1. Package Dimension (DCC6)



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

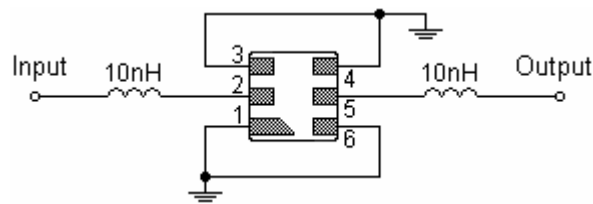
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.90±0.1	E	1.35±0.15
B	0.64±0.1 (x6)	F	3.80±0.15
C	1.00±0.1 (x5)	G	3.80±0.15
D	1.27±0.1 (x4)		

2. Marking

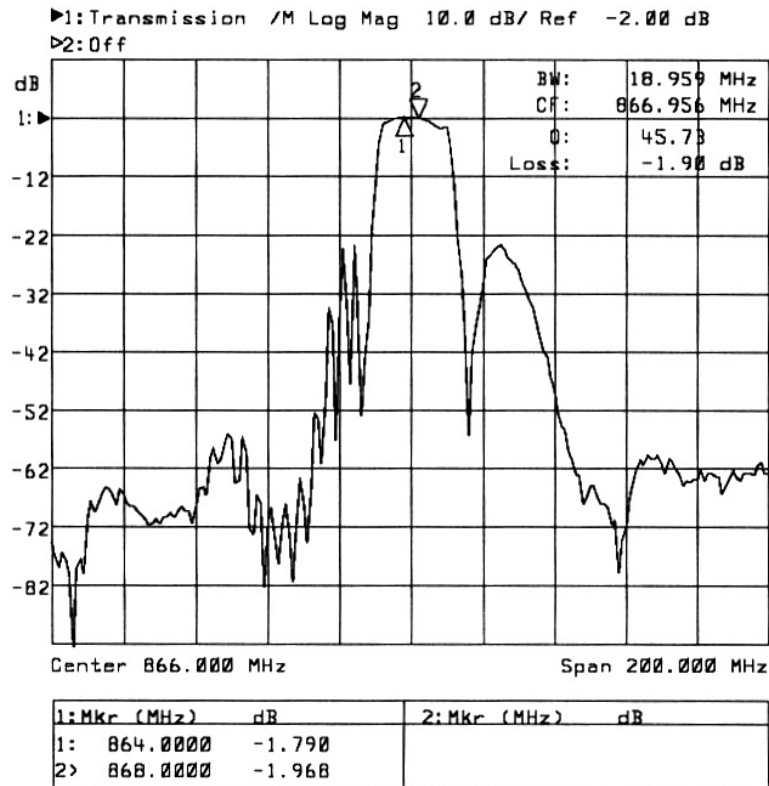


Laser Marking

3. Matching Circuit



4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Maximum Input Level	P	0	dBm
Maximum DC Voltage	V_{DC}	10	V
Operable Temperature Range	T_A	-10 to +65	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency	f_c	—	866.000	—	MHz
3dB Bandwidth	BW_3	—	19	—	MHz
Usable Passband	BW	—	±2.0	—	MHz
Insertion Loss within $f_c \pm 2.0$ MHz	IL	—	2.5	4.0	dB
Amplitude Ripple (p-p) within $f_c \pm 2.0$ MHz	$\Delta\alpha$	—	—	1.5	dB
Absolute Attenuation $f_c - 200.0 \sim f_c - 30.0$ MHz $f_c + 50.0 \sim f_c + 200.0$ MHz	α	42 45	52 55	— —	dB dB
Terminating Impedance		50Ω // 10nH			

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

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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 $VSWR \leq 1.2:1$. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_c . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
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.