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SAW BANDPASS FILTER

ACT PART NO.: ACTF8058/868.6W/DCC6

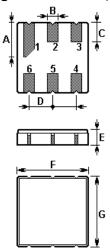
Product Type:	Customer:
SAW Filter	
Part NO.:	Customer Part NO.:
ACTF8058/868.6W/DCC6	Issued Date:

PREPARED BY	CHECKED BY	APPROVED BY



The **ACTF8058** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6** case with center frequency **868.60** MHz.

1. Package Dimensions (DCC6)



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

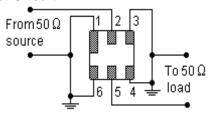
Sign	Data (unit: mm)	Sign Data (unit: m		
Α	1.90±0.1	Е	1.35±0.15	
В	0.64±0.1 (x6)	F	3.80±0.15	
С	1.00±0.1 (x5)	G	3.80±0.15	
D	1.27±0.1 (x4)			

2. Marking

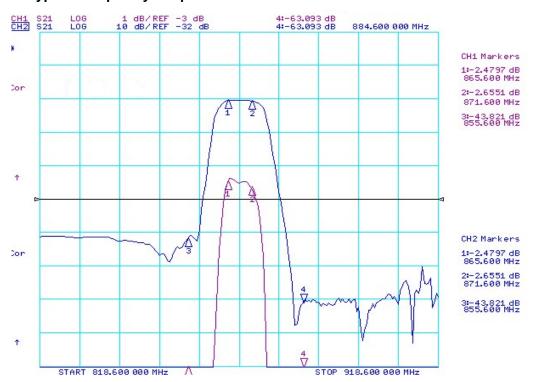


Laser Marking

3. Test Circuit



4. Typical Frequency Response:





5. Performance

5-1. Maximum Ratings

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	$V_{ m DC}$	12	V
Operable Temperature Range	T _A	-40 to +85	$^{\circ}$
Storage Temperature Range	$T_{ m stg}$	-40 to +85	$^{\circ}$

5-2. Electronic Characteristics

Characteristic		Min.	Тур.	Max.	Unit
Center Frequency	fc		868.600		MHz
Insertion Loss 865.6 MHz 871.6 MHz	IL		2.4	4.0	dB
3dB Bandwidth	BW ₃	10	11.5		MHz
Passband Ripple 865.6 MHz 871.6 MHz	Δα		0.5	1.0	dB
Relative Attenuation (relative to <i>IL</i>) 100.00 MHz 856.00 MHz 885.00 MHz 905.00 MHz 905.00 MHz1500.00 MHz	$lpha_{ m rel}$	35 35 40	42 58 55	 	dB dB dB
Input / Output Impedance			50	•	Ω

(i) 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≤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.