

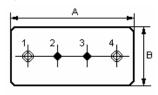
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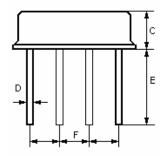
Issue: 1 C1

Date: SEPT 04

This specification covers the character istics of the ACTF446B/446.0/F11 SAW Filter. The filter is designed fo r use in Mobile Radio Applications (Walkie Talkie – FRS/PMR) (Centre Frequency: 446.0MHz)

1. Package Dimension (F-11)



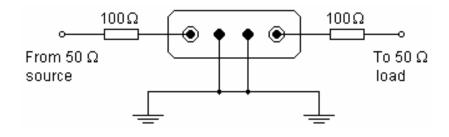


2.

Pin	Configuration			
1	Input / Output			
4	Output / Input			
2/3	Case Ground			

Dimensions	Data (unit: mm)				
А	11.0±0.3				
В	4.5±0.3				
С	3.2±0.3				
D	0.45±0.1				
Е	5.0±0.5				
F	F 2.54±0.2				

3. Test Circuit



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

ISO9001: 2000 Registered

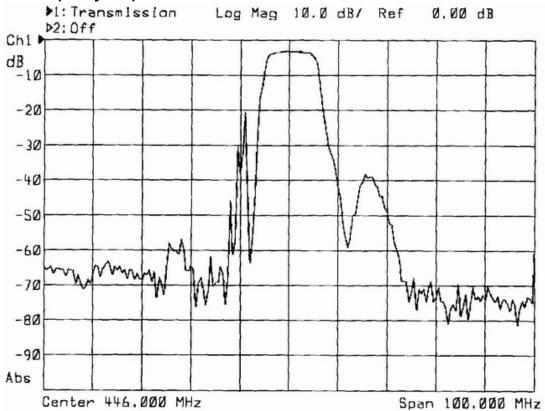
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4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value		
RF Power Dissipation	Р	0dBm		
DC Voltage	V_{DC}	10V		
AC Voltage	V_{AC}	10V50Hz/60Hz		
Operation Temperature	Topr	-20 to +60 °C		
Storage Temperature	Tstg	-40 to +85 °C		

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5-2. Electronic Characteristics

Characteristics		Min.	Тур.	Max.	Unit	
Centre Frequency		$f_{\mathbb{C}}$		446.00		MHz
User Signal Band B		BW		±2.0		MHz
Insertion Loss $f_{ m C} \pm 2.0 { m MHz}$		IL		3.0	4.5	dB
Pass Band R	ipple $f_{ m C}~\pm~$ 2.0MHz	Δα			2.0	dB
Rejection level	f _C -13.7 ~ f _C -7.7MHz		8			
	f _C -45.8 ~ f _C -39.8MHz			50		dB
	f _C +39.8 ~ f _C + +45.8MHz		45			
Input / Output Impedance (Nominal)		150Ω//0pF				

(i) 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 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.
- 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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