

Tel: +44 118 979 1238 Fax: +44 118 979 1283

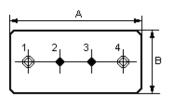
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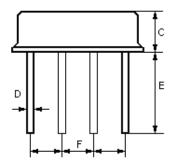
Date: SEPT 04

Email: info@actcrystals.com

The ACTF930.5/930.5/F11 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a low-profile metal F-11 case for pager applications.

1. Package Dimension (F-11)



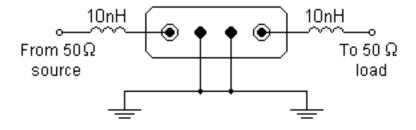


2.

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				
E	5.0±0.5				
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 - 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



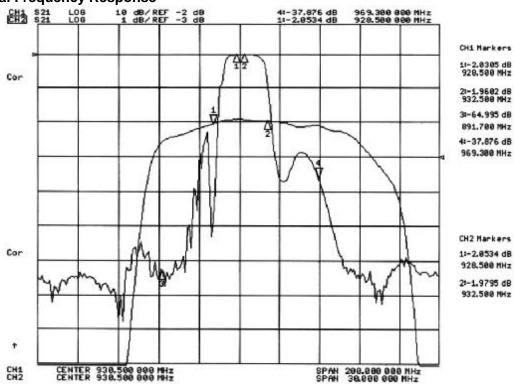
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4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating	Value		
DC Voltage	$V_{ m DC}$	+15 V max.	
AC Voltage	V_{PP}	10V 50Hz/60Hz	
Operation temperature	T_{A}	-10°C to +65°C	
Storage temperature	$T_{ m stg}$	-45°C to +85°C	
RF Power Dissipation	Р	0 dBm	

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5-2. Electronic Characteristics

Item		Max.	Тур.	Min.	Unit
Centre Frequency	f _C		930.5		MHz
Usable Bandwidth	BW		±2.0		MHz
Insertion Loss 928.50 MHz 932.50 MHz	IL		2.2	4.5	dB
Relative Attenuation (relative to IL) $f_{C}\text{-}100.0\text{MHz} \dots f_{C} \text{-}38.8 \text{ MHz}$ $f_{C}\text{+}20.0\text{MHz} \dots f_{C} \text{+}38.8 \text{ MHz}$ $f_{C}\text{+}38.8\text{MHz} \dots f_{C}\text{+}60.0 \text{ MHz}$ $f_{C}\text{+}60.0\text{MHz} \dots f_{C}\text{+}100.0 \text{ MHz}$	$lpha_{ m rel}$	40 23 28 45	55 28 35 60	 	dB dB dB dB
Passband Ripple 928.50 MHz 932.50 MHz	Δα			1.0	dB
Input / Output Impedance		50Ω // 10nH			

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

- 1. The frequency $f_{\mathbb{C}}$ 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 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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