

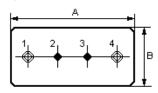
Tel: +44 118 979 1238

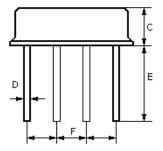
Fax: +44 118 979 1283

Email: info@actcrystals.com

The ACTF465A/465.0/F11 is a compact and economical surface acoustic wave (SAW) filter in an F11 package intended for use in mobile radio (FRS & PMR) applications.

1. Package Dimension (F-11)



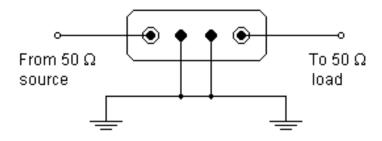


2.

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			
Е	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

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

Date : March 2010

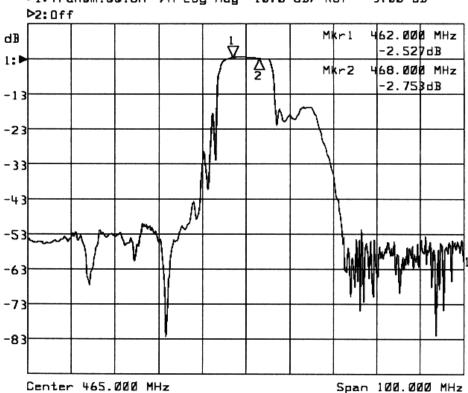
Issue: 1.1 C1



Tel: +44 118 979 1238 +44 118 979 1283 Fax: Email: info@actcrystals.com

4. Typical Frequency Response

▶1:Transmission /M Log Mag 10.0 dB/ Ref -3.00 dB



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	

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

ISO9001: 2000 Registered

Issue: 1.1 C1 For quotations or further information please contact us at: Date: March 2010 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK



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

Email: info@actcrystals.com

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Units
Centre Frequency	$f_{\mathbb{C}}$		465.000		MHz
User Signal Band	BW		±3.0		MHz
Insertion Loss f _C ±3.0MHz	IL		3.0	4.5	dB
Absolute Attenuation DC to f _C -20.0MHz f _C 3+0.0MHz to f _C +200.0MH		40 42	48 52	 	dB
Pass Band Ripple f _C ±3.0MHz	Δα			2.0	dB
Input / Output Impedance (Nominal)		50Ω//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 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.

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

ISO9001: 2000 Registered

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

Date : March 2010

Issue: 1.1 C1