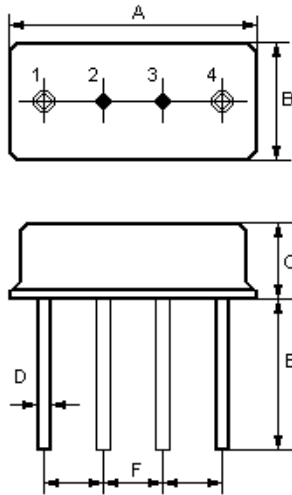


The **ACTF465B/465.0/F11** is a compact and economical surface-acoustic wave ( **SAW** ) filter in an **F11** package intended for use in mobile radio ( **FRS & PMR** ) applications

### 1. Package Dimension (F-11)

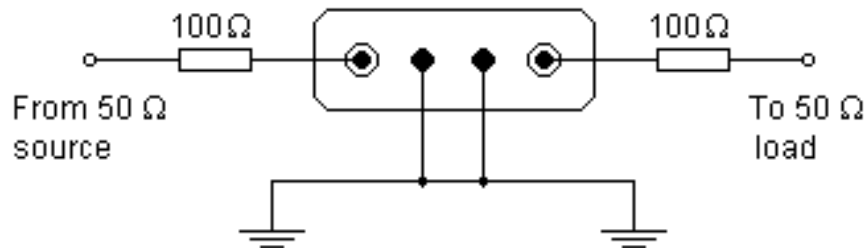


### 2.

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

Dimensions	Data (unit: mm)
A	11.0±0.3
B	4.5±0.3
C	3.2±0.3
D	0.45±0.1
E	5.0±0.5
F	2.54±0.2

### 3. Test Circuit



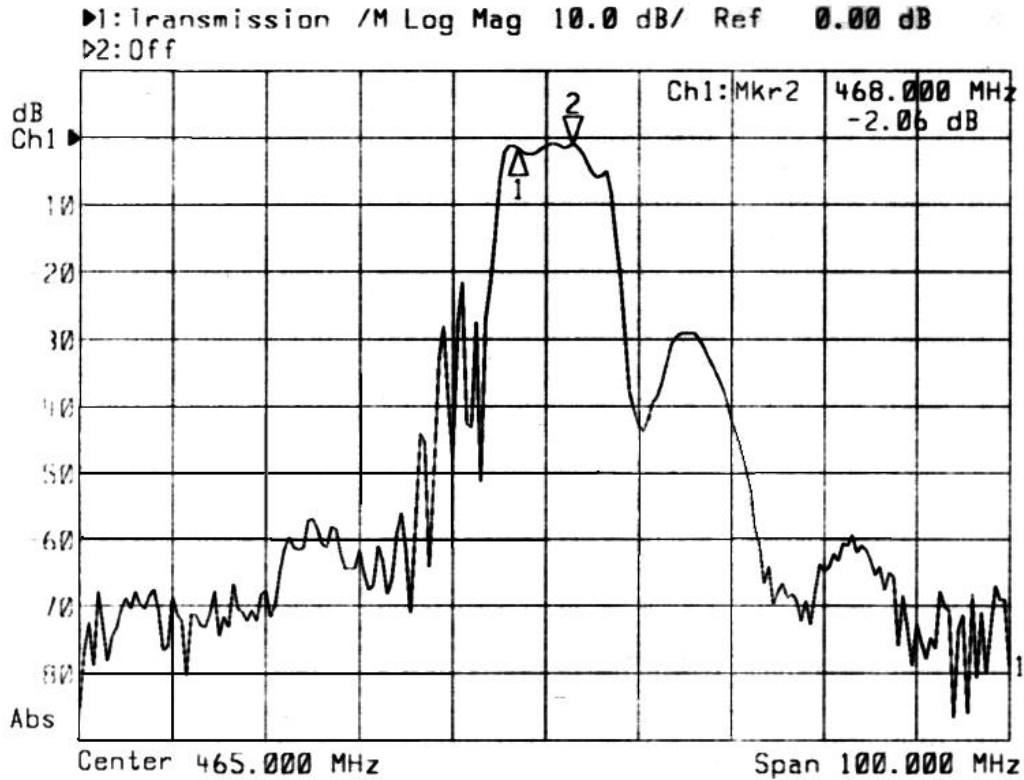
In keeping with our ongoing policy of product evolution and improvement, the above specification is subject to change without notice.

**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>

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#### 4. Typical Frequency Response



#### 5. Performance

##### 5-1. Maximum Ratings

Rating		Value
RF Power Dissipation	P	0dBm
DC Voltage	V <sub>DC</sub>	10V
AC Voltage	V <sub>AC</sub>	10V50Hz/60Hz
Operation Temperature	T <sub>opr</sub>	-20 to +60°C
Storage Temperature	T <sub>stg</sub>	-40 to +85°C

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## 5-2. Electronic Characteristics

Characteristics		Min.	Typ.	Max.	Unit
Centre Frequency	$f_c$	--	465.00	--	MHz
User Signal Band	$BW$	--	$\pm 3.0$		MHz
Insertion Loss	$f_c \pm 3.0\text{MHz}$ $IL$	--	3.5	4.5	dB
Pass Band Ripple	$f_c \pm 3.0\text{MHz}$ $\Delta\alpha$	--	--	2.0	dB
Rejection level	$f_c - 13.7 \sim f_c - 7.7\text{MHz}$	8	--	--	dB
	$f_c - 45.8 \sim f_c - 39.8\text{MHz}$	--	50	--	
	$f_c + 39.8 \sim f_c + 45.8\text{MHz}$	45	--	--	
Input / Output Impedance (Nominal)		150 $\Omega$ //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 $\Omega$  test system with  $VSWR \leq 1.2:1$ . 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 evolution and improvement, the above specification is subject to change without notice.

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