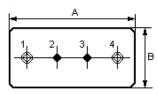
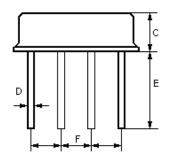


Tel: +44 118 979 1238 Fax: +44 118 979 1283 Email: info@actcrystals.com

The ACTF916.5/915.6/F11 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a low-profile metal F-11 case designed to provide front-end selectivity in 916.500 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen.

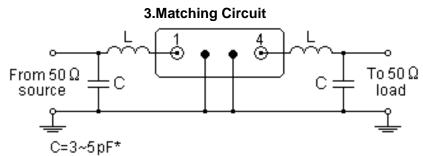
1.Package Dimension (F-11)





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		



L=2 turns of 0.5mm insulated Copper, 2.0mm ID

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

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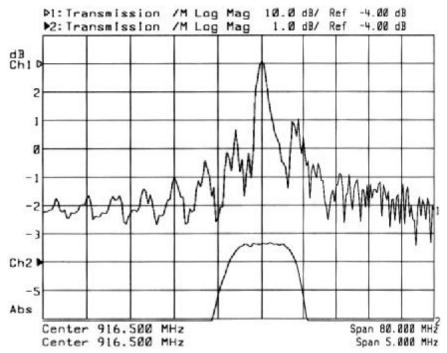


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Date: SEPT 04

4. Typical Frequency Response



5.Performance

5-1.Maximum Rating

Rating	Value	Unit	
CW RF Power Dissipation	Р	+10	dBm
DC Voltage Between Any Two Pins	$V_{ m DC}$	±30V	V
Storage Temperature Range	$T_{\rm stg}$	-40 to +85	°C
Operating Temperature Range	T_{A}	-10 to +60	С

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Fax:

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit	
Centre Frequency (Centre frequency between 3dB points)		f _C		916.500		MHz
Insertion Loss		IL		3.5	5.0	dB
3dB Pass band		BW ₃		1,200		kHz
Rejection	at f _C -21.4MHz (Image)		33	45		dB
	at f _C -10.7MHz (LO)		20	35		
	Ultimate			60		
Temperature	Turnover Temperature	To	25		55	°C
	Turnover Frequency	f _O		fc		MHz
	Frequency Temperature Coefficient	FTC		0.032		ppm/°C ²
Frequency Aging Absolute Value during the First Year fA			10		ppm/yr	

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, fc. 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. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 5. Turnover temperature, \overline{T}_0 , is the temperature of maximum (or turnover) frequency, f_0 . The nominal frequency at any case temperature, T_C , may be calculated from: $f = f_0 [1 - FTC (T_0 - T_C)^2]$.
- 6. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 8. 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.

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