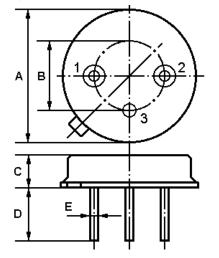


Tel : +44 118 979 1238 Fax : +44 118 979 1283 Email: <u>info@actcrystals.com</u>

The ACTF480-1/480.0/TO39-2 is a one channel IF filter for DSB receivers with constant group delay.

1.Package Dimension (TO-39)

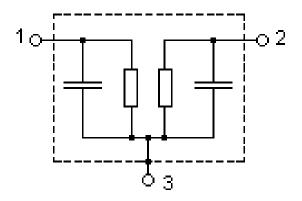


2	
-	,

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

Dimensions	Data (Unit: mm)		
А	9.35±0.10		
В	5.08±0.10		
С	3.40±0.10		
D	3.00±0.20		
E	Ф0.45±0.20		

3.Equivalent LC Model



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

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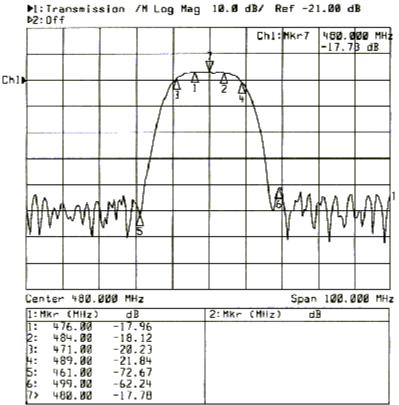
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4. Typical Frequency Response



5.Performance

5-1.Maximum Ratings

Rating		Value	Units
AC Voltage Between Any Two Pins	V_{pp}	5	V
DC Voltage Between Any Two Pins	V _{DC}	0	V
Storage temperature range	T _{stg}	-40 to +85	°C
Operable temperature range	T _A	-25 to +85	°C

Reference temperature:	T _A = 25 °C
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_L = 50 \Omega$

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Cł	naracteristic		Min.	Тур.	Max.	Units
Centre Frequency		f _c	479.00	480.00	481.00	MHz
Insertion attenuation (Reference level for the for	480.00 MHz Ilowing data)	α		21	23.0	dB
Pass bandwidth	α _{rel} ≤3dB	B _{3dB}	16.60	17.80	18.60	MHz
Relative attenuation Lower sidelobe Upper sidelobe	471.00 MHz 489.00 MHz 430.00461.00 MHz 499.00 530.00 MHz	α _{rel}	 38.0 38.0	3.4 3.0 50.0 45.0	5.4 5.4 	dB dB dB dB
Reflected wave signal s 0.13µs 2.0µs after main	••		40.0	46.0		dB
Amplitude ripple (p-p)	476.00 484.00 MHz	zΔα		0.6	1.0	dB
Group delay (aperture 0.	25MHz) 480.00 MHz	z t		281.0		ns
Group delay ripple (p-p)	471.50 488.50 MH	$z \Delta t$		11.5	18.0	ns
Temperature coefficient	of frequency	TC _f		-94		ppm/K

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.

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