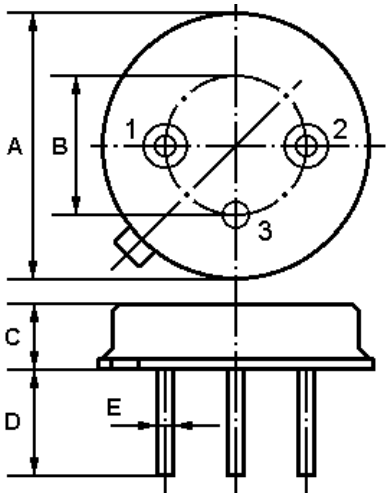
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The ACTF480N/480.0/TO39-2 is a LOW INSERTION LOSS Saw filter intended for use in satellite program receivers.

1.Package Dimension (TO-39)

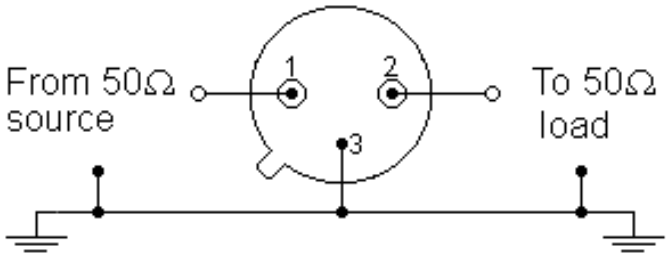


2.

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

Dimensions	Data (Unit: mm)
A	9.35±0.10
B	5.08±0.10
C	3.40±0.10
D	3.00±0.20
E	Φ0.45±0.20

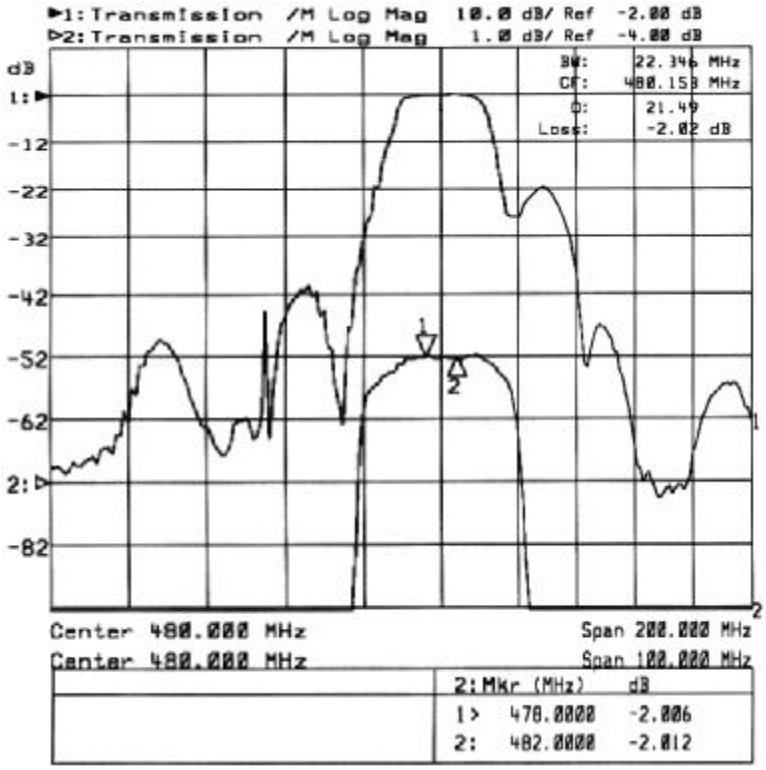
3.Test Circuit



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

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4.Typical Frequency Response



5.Performance

5-1.Maximum Ratings

Rating	Value	Unit
CW RF Power Dissipation	+10	dBm
DC Voltage Between Any Two Pins	±30V	VDC
Case Temperature	-40 to +85	°C

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5-2.Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Nominal Center Frequency	f_C	--	480.00	--	MHz
3dB Bandwidth	BW_{3dB}	--	22	--	MHz
Usable Bandwidth	BW	--	±2	--	MHz
Insertion Loss 478.00 MHz …. 482.00 MHz	IL	--	2.5	4.0	dB
Absolute Attenuation DC …. f_C• 50.00 MHz f_C• 50.00 MHz …. f_C• 25.00 MHz f_C• 60.00 MHz …. f_C• 200.0 MHz	α	 36 30 42	 48 40 56	 -- -- --	dB
Pass Band Ripple 478.00 MHz …. 482.00 MHz	$\Delta\alpha$	--	--	2.0	dB
Input / Output Impedance (Nominal)		50			Ω

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 center 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.