480.00 MHz SAW Filter

- Ideal for DBS Receivers, IF Filter
- Constant Group Delay
- Improved ESD capability by integrated shunt resistors
- Rugged, Hermetic, Low Profile TO-39 Package

SF480-5

Absolute Maximum Rating (Ta=25°C)						
Parameter		Rating	Unit			
AC Voltage Between Any Two Pins	V _{PP}	5	V			
DC Voltage Between Any Two Pins	V _{DC}	0	V			
Operating Temperature Range	T _A	-25 ~ +85	°C			
Storage Temperature Range	$T_{\rm stg}$	-40 ~ +85	°C			

Electronic Characteristics						
	Parameter	Sym	Minimum	Typical	Maximum	Unit
Center Frequency (25°C)	Between 3dB point	f _C	NS	480.00	NS	MHz
	Tolerance from 480.00 MHz	∆f _C	-	-	1.0	MHz
Insertion Attenuation		α	-	20.0	21.5	dB
Pass Bandwidth	$\alpha \leq 3 dB$	BW ₃	25.60	26.60	27.60	MHz
Pass Bandwidth	<i>α</i> ≤103dB	<i>BW</i> ₁₀	-	33.9	-	MHz
Relative Attenuation						
	466.50 MHz		-	3.0	4.6	dB
	493.50 MHz	lpharel	-	3.2	4.6	dB
Lower Sidelobe	430.00 455.50 MHz		40	46	-	dB
Upper Sidelobe	504.50 530.00 MHz		38	42	-	dB
Reflected Wave Signal Suppression			10.0	47.0		dB
	$0.11 \mu s \dots 2.0 \mu s$ after main pulse	-	40.0	47.0	-	uБ
Amplitude Ripple (p-p)	473.50 486.50 MHz	Δα	-	0.6	1.0	dB
Group Delay	480.00 MHz	τ	-	250.0	-	ns
Group Delay Ripple (p-p)	467.00 493.00 MHz	$\Delta \tau$	-	8.5	15.0	ns
Temperature Coefficient of Frequency		FTC	-	-86	-	ppm/K

NS = Not Specified

Notes:

- 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 \leq 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.
- All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 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.
- 7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

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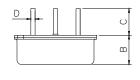
Email: sales@vanlong.com

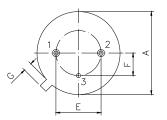
Web: http://www.vanlong.com

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Package Dimensions (TO-39)





Marking



Ink Marking Color: Black or Blue

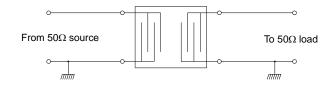
Electrical Connections

Terminals	Connection		
1	Input/Output		
2	Output/Input		
3	Case Ground		

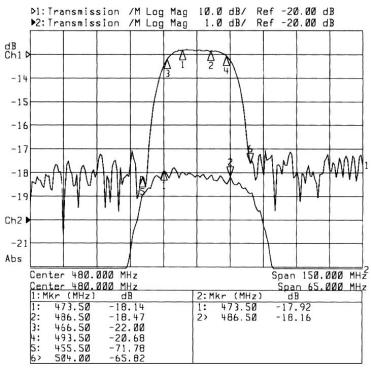
Package Dimensions

Dimensions	Nom. (mm)	Tol. (mm)		
А	9.35	±0.10		
В	3.40	±0.10		
С	3.00	±0.20		
D	0.45	±0.10		
E	5.08	±0.10		
F	2.54	±0.20		
G	1.0			

Test Circuit



Typical Frequency Response



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