

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

SF480-3

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	$V_{ m DC}$	0	V			
Operating Temperature Range	T_{A}	-25 ~ +85	°C			
Storage Temperature Range	$T_{ m stg}$	-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	-	22.5	24.0	dB
3dB Bandwidth		BW ₃	25.60	26.60	27.60	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	43	-	dB
Reflected Wave Signal Suppression		_	40.0	46.0	_	dB
	$0.15\mu s \dots 2.0\mu s$ after main pulse		40.0	40.0	-	ub
Amplitude Ripple (p-p)	473.50 486.50 MHz	Δα	-	0.6	1.0	dB
Group Delay	480.00 MHz	τ	-	227.5	-	ns
Group Delay Ripple (p-p)	467.00 493.00 MHz	Δτ	-	8.5	15.0	ns
Temperature Coefficient of Frequency		FTC	-	-86	-	ppm/K

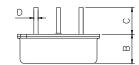
NS = Not Specified

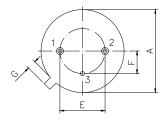
Notes:

- 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.
- Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 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.
- For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.



Package Dimensions (TO-39)





Electrical Connections

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

Package Dimensions

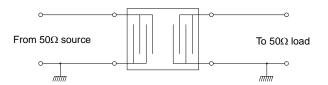
Dimensions	Nom. (mm)	Tol. (mm)	
Α	9.35	±0.10	
В	3.40	±0.10	
С	3.00	±0.20	
D	0.45	±0.10	
Е	5.08	±0.10	
F	2.54	±0.20	
G	1.0		

Marking

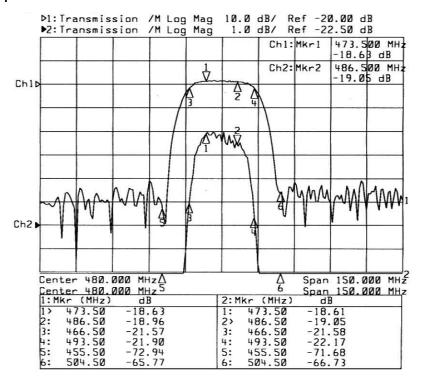


Ink Marking Color: Black or Blue

Test Circuit



Typical Frequency Response



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