

- Ideal for DBS Receivers, IF Filter
- Constant Group Delay
- Improved ESD capability by integrated shunt resistors
- Rugged, Hermetic, Low Profile TO-39 Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

SF480-7

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	$T_{ m stg}$	-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	-	21.0	22.5	dB
Pass Bandwidth	$\alpha \leq 3dB$	BW ₃	-	36.2	-	MHz
Relative Attenuation						
	462.00 MHz		-	3.0	4.2	dB
	498.00 MHz	lpharel	-	2.9	4.2	dB
Lower Sidelobe	430.00 455.00 MHz		36	41	-	dB
Upper Sidelobe	510.00 530.00 MHz		36	42	-	dB
Reflected Wave Signal Suppression			40.0	48.0		dB
	0.1μs 2.0μs after main pulse		40.0	40.0	_	uБ
Amplitude Ripple (p-p)	467.00 493.00 MHz	Δα	-	0.5	1.0	dB
Group Delay	480.00 MHz	τ		274.0	-	ns
Group Delay Ripple (p-p)	466.50 493.50 MHz	Δτ	-	2.0	3.0	ns
Temperature Coefficient of Frequency		FTC		-86	-	ppm/K

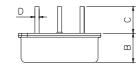
NS = Not Specified

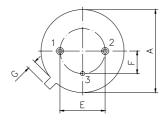
Notes:

- 1. The frequency $f_{\rm C}$ 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, $f_{\mathbb{C}}.$ 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.
- 7. 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

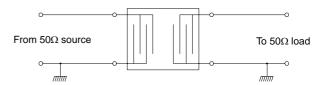
Dimensions	Nom. (mm)	Tol. (mm)	
Α	9.35	±0.10	
В	3.40	±0.10	
С	3.00	±0.20	
D	0.45	±0.10	
Е	5.08	±0.10	
F	2.54	±0.20	
G	1.0		

Marking

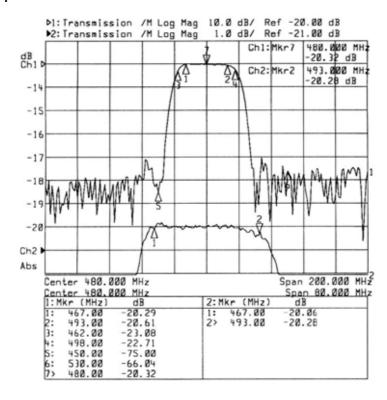


Ink Marking Color: Black or Blue

Test Circuit



Typical Frequency Response



Phone: +86 (10) 5820-3910

Fax: +86 (10) 5820-3915

Email: sales@vanlong.com

Web: http://www.vanlong.com