

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

SF480-6

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 of Channel 1						
	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	Δf_{C}	-	-	1.0	MHz
Insertion Attenuation		α	-	21.5	23.5	dB
3dB Bandwidth		BW ₃	-	8.0	-	MHz
Relative Attenuation						
	476.00 MHz		-	3.0	5.4	dB
	484.00 MHz	ound.	-	2.6	5.3	dB
Lower Sidelobe	410.00 465.00 MHz	lpharel	37	45	-	dB
Upper Sidelobe	491.50 499.00 MHz		34	41	-	dB
	499.00 550.00 MHz		38	47	-	dB
Reflected Wave Signal Suppression			40.0	46.0		dB
	0.19μs 2.0μs after main pulse	-	40.0	46.0	-	uБ
Amplitude Ripple (p-p)	478.00 482.00 MHz	Δα	=	0.7	1.5	dB
Group Delay Ripple (p-p)	476.00 484.00 MHz	$\Delta \tau$	=	13.0	18.0	ns
Temperature Coefficient of Frequency		FTC	-	-86	-	ppm/K

Electronic Characteristics of Channel 2						
	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	Δf_{C}	-	-	1.0	MHz
Insertion Attenuation		α	-	23.5	25.5	dB
3dB Bandwidth		BW ₃	-	54.5	-	MHz
Relative Attenuation						
	452.50 MHz		-	4.0	5.5	dB
	507.50 MHz	lpharel	-	3.0	5.3	dB
Lower Sidelobe	410.00 440.00 MHz		37	44	-	dB
Upper Sidelobe	518.00 550.00 MHz		36	41	-	dB
Reflected Wave Signal Suppression			40.0	46.0		٩D
	0.12μs 2.0μs after main pulse	-	40.0	46.0	-	dB
Amplitude Ripple (p-p)	461.00 499.00 MHz	Δα	-	0.6	1.2	dB
Group Delay Ripple (p-p)	452.50 507.50 MHz	$\Delta \tau$	-	11.0	18.0	ns
Temperature Coefficient of Frequency		FTC	-	-86	-	ppm/K

NS = Not Specified

Phone: +86 10 6301 4184

Fax: +86 10 6301 9167

Email: sales@vanlong.com

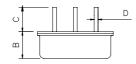
Web: http://www.vanlong.com

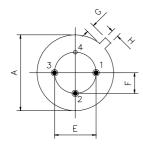


Notes:

- 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.

Package Dimensions (TO-39-4)





- 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.
- For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

Electrical Connections

Terminals	Connection		
1	Input / Output		
2	Output 2 / Input 2		
3	Output 1 / Input 1		
4	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		
Н	0.6		

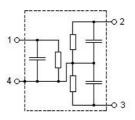
Marking



Ink Marking

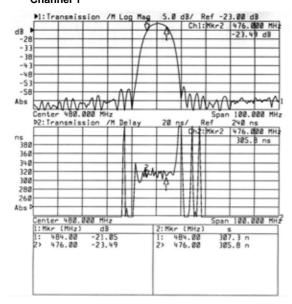
Color: Black or Blue

Equivalent LC Model

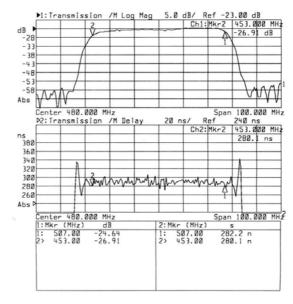


Typical Frequency Response

Channel 1



Channel 2



Phone: +86 10 6301 4184 Fax: +86 10 6301 9167

Email: sales@vanlong.com

Web: http://www.vanlong.com