- ***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_{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	Δf_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	αrel	-	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	0.1μs ... 2.0μs after main pulse	-	40.0	48.0	-	dB
Amplitude Ripple (p-p)	467.00 ... 493.00 MHz	$\Delta\alpha$	-	0.5	1.0	dB
Group Delay	480.00 MHz	τ	-	274.0	-	ns
Group Delay Ripple (p-p)	466.50 ... 493.50 MHz	$\Delta\tau$	-	2.0	3.0	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 ≤ 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.
7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

Phone: +86 (10) 5820-3910 Fax: +86 (10) 5820-3915 Email: sales@vanlong.com Web: http://www.vanlong.com
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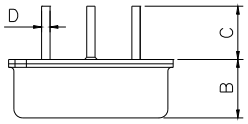
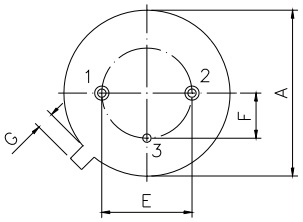
Package Dimensions (TO-39)





Electrical Connections

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

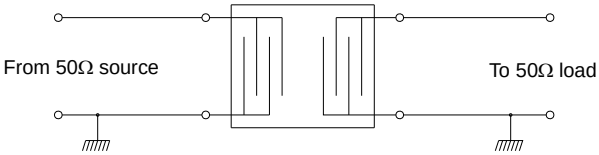
Package Dimensions

Dimensions	Nom. (mm)	Tol. (mm)
A	9.35	±0.10
B	3.40	±0.10
C	3.00	±0.20
D	0.45	±0.10
E	5.08	±0.10
F	2.54	±0.20
G	1.0	

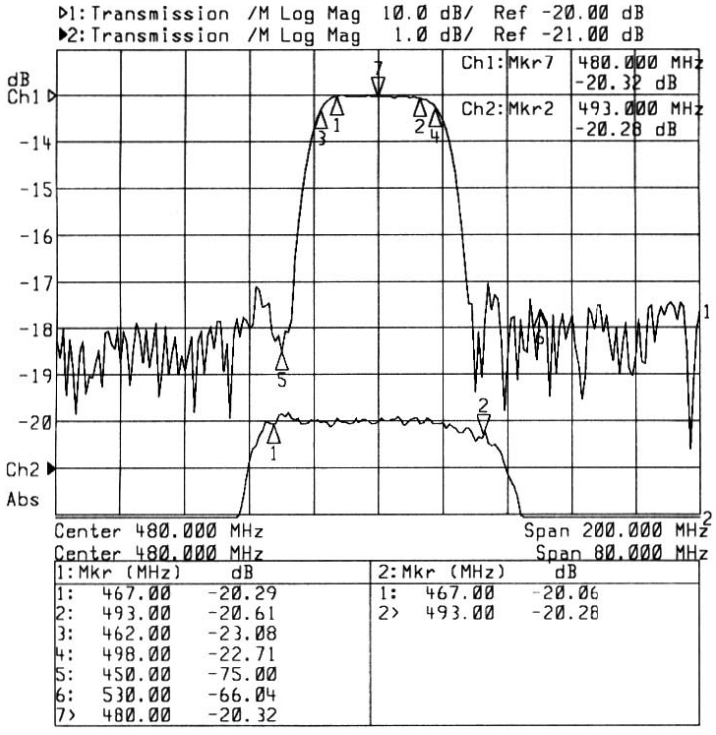
Marking

Ink Marking
Color: Black or Blue

Test Circuit



Typical Frequency Response



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