

- Ideal Front-End Filter for Wireless Receivers
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile TO-39 Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

SF480-L3R

Absolute Maximum Rating (Ta=25°C)						
Parameter	Rating	Unit				
CW RF Power Dissipation	+10	dBm				
DC Voltage VDC Between Any Two Pins	±30	VDC				
Operating Temperature Range	-20 ~ +70	°C				
Case Temperature Range	-45 ~ +85	°C				
Soldering Temperature	235	°C				

Electronic Characteristics							
Parameter		Sym	Minimum	Typical	Maximum	Unit	
Nominal Center Frequency		fc	NS	480.00	NS	MHz	
3dB Passband		ВWз	=	22	-	MHz	
Usable Bandwidth		BW	=	4	-	MHz	
Insertion Loss	478.00MHz 482.00MHz	IL	-	2.5	4.0	dB	
Absolute Rejection							
	DC fc - 50.00MHz		36	48	-	dB	
fc - 50.00MHz fc - 25.00MHz		α	30	40	-	dB	
	fc + 60.00MHz fc + 200.0MHz		42	56	-	dB	
Passband Ripple	478.00MHz 482.00MHz	Δα	-	-	2.0	dB	
Frequency Aging	Absolute Value during the First Year	[fA]	=	-	10	ppm/yr	
DC Insulation Resistance Between any Two Pins		-	1.0	-	-	ΜΩ	
Input / Output Impendance		-	=	50	-	Ω	

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, $f_{\text{C}}.$ 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. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.

- Turnover temperature, T₀, is the temperature of maximum (or turnover) frequency, f₀. The nominal frequency at any case temperature, T_C, may be calculated from: f = f₀ [1 - FTC (T₀ - T_C)²].
- The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without
- 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 email to sales@vanlong.com.

Phone: +86 (10) 5820-3910

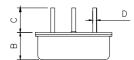
Fax: +86 (10) 5820-3915

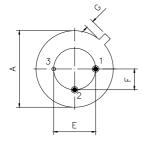
Email: sales@vanlong.com

Web: http://www.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	
E	5.08	±0.10	
F	2.54	±0.20	
G	0.45		

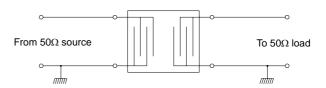
Marking



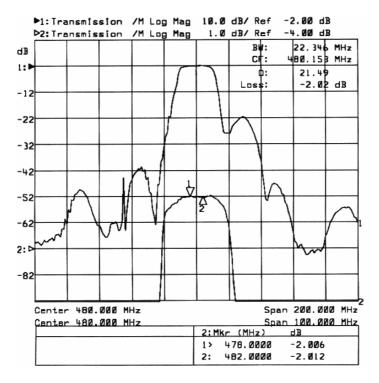
Ink Marking

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