- ***Designed to Provide Front-end selectivity in 480.00 MHz***
- ***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

Absolute Maximum Rating (Ta=25°C)			
Parameter		Rating	Unit
CW RF Power Dissipation	P	+10	dBm
DC Voltage V_{DC} Between Any Two Pins	V_{DC}	±30	V
Operating Temperature Range	T_A	-10 ~ +60	°C
Storage Temperature Range	T_{stg}	-45 ~ +125	°C

Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	f_C	NS	480.00	NS	MHz
Insertion Loss 478.00 … 482.00 MHz	*IL*	-	2.5	4.0	dB
3dB Passband	BW_3	-	22.0	-	MHz
Usable Bandwidth	*BW*	-	±2.0	-	MHz
Relative Attenuation (relative to *IL*)					
DC …f_C - 50.00 MHz	α_{rel}	36.0	48.0	-	dB
f_C - 50.00 …f_C - 25.00 MHz		30.0	40.0	-	dB
f_C + 60.00 …f_C - 200.00 MHz		42.0	56.0	-	dB
Passband Ripple	$\Delta\alpha$	-	-	2.0	dB
Temperature coefficient of frequency	*FTC*	-	0.032	-	ppm/K
Frequency Aging Absolute Value during the First Year	|fA|	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	MΩ

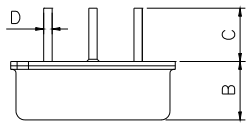
NS = Not Specified

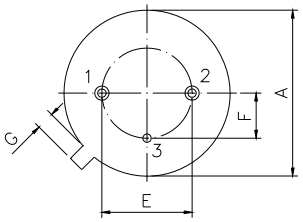
Notes:

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 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

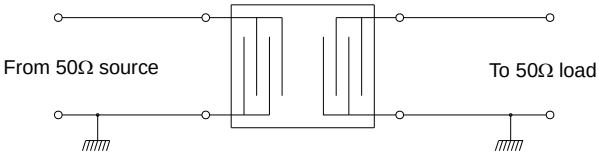
Dimensions	Nom. (mm)	Tol. (mm)
A	9.35	±0.10
B	3.40	±0.10
C	3.00	±0.20
D	0.45	±0.10
E	5.08	±0.10
F	2.54	±0.20
G	1.0	

Marking

Ink or Laser Marking

1. SF480 - Part Code
2. Date Code:
   Y : Last digit of year
   WW : Week No.

Test Circuit



Typical Frequency Response