

- **Ideal for Wireless LAN Applications**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Rugged, Hermetic, Low Profile TO-39 Package**

# SF374

Absolute Maximum Rating (Ta=25°C)			
Parameter		Rating	Unit
CW RF Power Dissipation	$P$	+10	dBm
DC Voltage VDC Between Any Two Pins	$V_{DC}$	0	V
Operating Temperature Range	$T_A$	-10 ~ +65	°C
Storage Temperature Range	$T_{stg}$	-40 ~ +85	°C

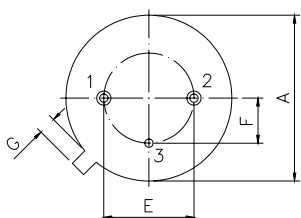
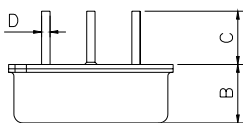
Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	$f_c$	NS	374.00	NS	MHz
Insertion Loss	$IL$	-	9.0	10.5	dB
3dB Passband	$BW_3$	17	22	-	MHz
Amplitude Ripple (p-p) $f_c \pm 7.0$ MHz	$\Delta\alpha$	-	0.5	1.0	dB
Group Delay Ripple (p-p) $f_c \pm 7.0$ MHz	$\Delta\tau$	-	40	100	ns
Triple Transit Suppression	-	30	40	-	dB
Relative Attenuation (relative to $IL$ )					
357.50 ... 352.00 MHz	$\alpha_{rel}$	30	42	-	dB
352.00 ... 341.00 MHz		40	45	-	dB
341.00 ... 224.00 MHz		48	52	-	dB
390.50 ... 392.00 MHz		20	38	-	dB
392.00 ... 396.00 MHz		30	42	-	dB
396.00 ... 422.00 MHz		38	44	-	dB
422.00 ... 454.00 MHz		40	45	-	dB
Temperature coefficient of frequency	$FTC$	-	-87	-	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:**

- The frequency  $f_c$  is defined as the midpoint between the 3dB frequencies.
- 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.
- 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 email to sales@vanlong.com.

Package Dimensions (TO-39)



Electrical Connections

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

Package Dimensions

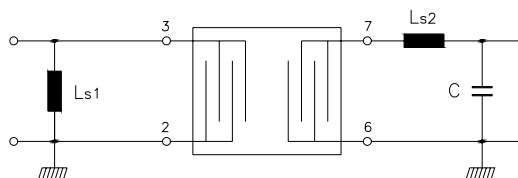
Dimensions	Nom. (mm)	Tol. (mm)
A	9.35	±0.10
B	3.40	±0.10
C	3.00	±0.20
D	0.45	±0.10
E	5.08	±0.10
F	2.54	±0.20
G	0.45	

Marking



Ink Marking  
Color: Black or Blue

Test Circuit



Ls1 = 27 nH      Ls2 = 22 nH  
C = 7 pF

Typical Frequency Response

