

- Ideal Front-End Filter for Wireless Receivers
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile F-11 Package

SF610

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

Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Frequency (25°C) Nominal Frequency	f _C	NS	610.00	NS	MHz
Image Carrier Frequency	f _{IMG}	NS	607.15	NS	MHz
Insertion Loss Attenuation 607.25 MHz 613.75 MHz	IL	-	4.0	6.5	dB
3dB Passband	ВW3	-	10.0	-	MHz
Passband Ripple 607.25 MHz 613.75 MHz	-	-	±0.5	±1.0	dB
Relative Attenuation (relative to IL)					
f _C - 40.0 MHz f _C - 18.0 MHz	-	36	48	-	dB
600.75 MHz	-	35	48	-	dB
f _C + 12.0 MHz f _C + 40.0 MHz	-	25	35	-	dB
Frequency Aging Absolute Value during the First Year	[fA]	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	MΩ
Input / Output Impedance Nominal	-	-	50 // 0		Ω//pF

NS = Not Specified

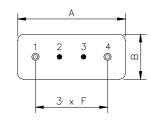
Notes:

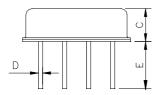
- The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR \leq 1.2:1. The test fixture L and C are adjusted for minimum insertion 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.

- 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 to sales@vanlong.com.



Package Dimensions (F-11)





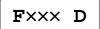
Electrical Connections

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

Package Dimensions

Dimensions	Nom. (mm)	Tol. (mm)
Α	11.0	±0.3
В	4.5	±0.3
С	3.2	±0.3
D	0.45	±0.1
Е	5.0	±0.5
F	2.54	±0.2

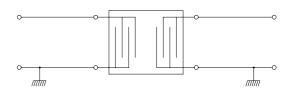
Marking



F – SAW Filter XXX – Part Code D – Date Code

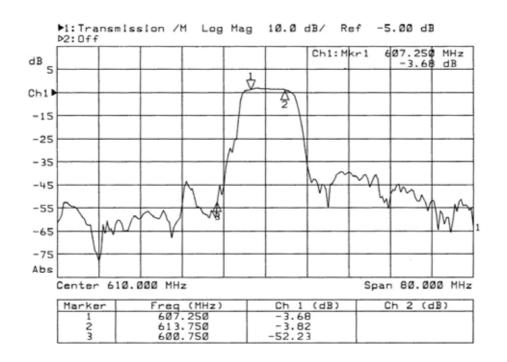
Year\Month	1	2	3	4	5	6
2004	n	р	q	r	S	t
2005	Α	В	С	D	Е	F
Year/Month	7	8	9	10	11	12
2004	u	٧	W	Х	у	Z
2005	G	Н	J	K	L	M

Test Circuit



Nominal Source/Load Impedance : 50 Ω

Typical Frequency Response



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