110.592 MHz SAW Filter

SF110N

- Ideal for Receiver in 110.592 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile F-11 Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

Absolute Maximum Rating (Ta=25°C)						
Parameter		Rating	Unit			
CW RF Power Dissipation	Р	+0	dBm			
DC Voltage VDC Between Any Two Pins	V _{DC}	±10	V			
Operating Temperature Range	T _A	-20 ~ +55	°C			
Storage Temperature Range	$T_{\rm stg}$	-40 ~ +85	°C			

Electronic Characteristics						
Parameter		Minimum	Typical	Maximum	Unit	
Nominal Frequency (at 25°C)		NS	110.592	NS	MHz	
(Center frequency between 3dB point)	f _C	110	110.332	NO		
Insertion Loss		-	4.5	5.0	dB	
User Signal Passband	BW	-	±576	-	KHz	
Stopband Attenuation						
<i>f</i> _C - 5.0 MHz	$lpha_{ m rel}$	50	-	-	dB	
f _C - 3.5 MHz		45	-	-	dB	
$f_{\rm C} \pm 2.0 \; {\rm MHz}$		30	-	-	dB	
<i>f</i> _C + 3.5 MHz		40	-	-	dB	
<i>f</i> _C + 5.0 MHz		40	-	-	dB	
Group Delay Deviation	-	-	0.7	-	μSec	
Frequency Aging Absolute Value during the First Year	fA	-	-	10	ppm/yr	
DC Insulation Resistance Between any Two Pins		1.0	-	-	MΩ	
Input / Output Impendence (nominal)	-	-	300//1.2	-	Ω//μΗ	

NS = Not Specified

Notes:

- 1. The frequency $f_{\rm C}$ 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.
- 4. 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.

Phone: +86 (10) 5820 3910

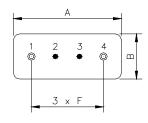
Fax: +86 (10) 5820 3915

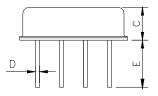
Email: sales@vanlong.com



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Package Dimensions (F-11)





Marking

SF110N

Ink Marking Color: Black or Blue

Typical Frequency Response

▶1:Transmission /M Log Mag 10.0 dB/ Ref -5.00 dB ▶2:0ff 2.018 MHz 110.510 MHz BW: CF: dB Ch1 54.76 0: 6 -2.52 dB Loss: -15 -25 -35 -45 -55 -65 -75 -85 Abs Span 30.000 MHz Center 110.592 MHz

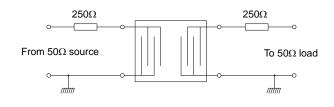
Electrical Connections

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

Package Dimensions

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

Test Circuit



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