

- Ideal for Receivers in 400.00 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)

SF400

Absolute Maximum Rating (Ta=25°C)						
Parameter		Rating	Unit			
CW RF Power Dissipation	Р	+10	dBm			
DC Voltage VDC Between Any Two Pins	$V_{ m DC}$	±30	V			
Operating Temperature Range	T _A	-10 ~ + 60	°C			
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C			

Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	f _C	NS	400.00	NS	MHz
Insertion Loss 398.00 402.00 MHz	IL	-	3.5	5.0	dB
User Signal Passband	BW	=	±2.5	-	MHz
Passband Ripple (p-p) 398.00 402.00 MHz	Δα	=	2.0	-	dB
Attenuation					
DC 370.00 MHz		45	50	-	dB
397.50 402.50 MHz	α_{rel}	-	3.5	5.0	dB
430.00 600.00 MHz		50	60	-	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 (nominal)		=	50//0	-	Ω//pF

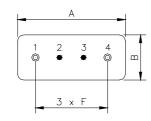
NS = Not Specified

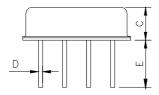
Notes:

- 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 ≤ 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.
- 7. For questions on technology, prices and delivery please contact our sales offices or email 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

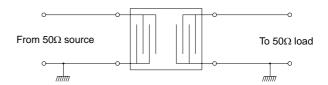
Dimensions	Nom. (mm)	Tol. (mm)
Α	11.0	±0.3
В	4.5	±0.3
С	3.2	±0.3
D	0.45	±0.1
E	5.0	±0.5
F	2.54	+0.2

Marking

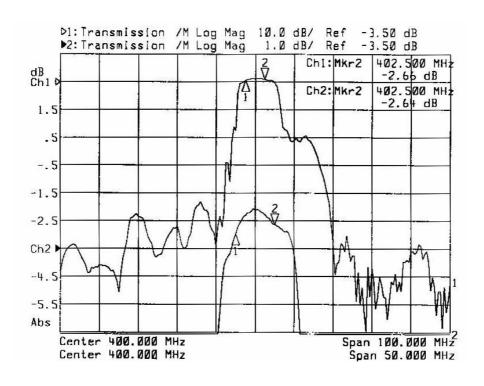


Ink Marking Color: Black or Blue

Test Circuit



Typical Frequency Response



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