

- Ideal for Receiver in 446.00 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile F-11 Package

SF446B

Absolute Maximum Rating (Ta=25°C)						
Parameter		Rating	Unit			
CW RF Power Dissipation	Р	+10	dBm			
DC Voltage VDC Between Any Two Pins	V _{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	446.00	NS	MHz	
Insertion Loss 443.00 449.00 MHz	IL	-	3.5	5.0	dB	
User Signal Passband	BW	-	±3.0	-	MHz	
Passband Ripple (p-p) 443.00 449.00 MHz	Δα	-	2.0	-	dB	
Attenuation (out of $f_{\rm C} \pm 30 {\rm MHz}$)	$lpha_{rel}$	50	60	-	dB	
Frequency Aging Absolute Value during the First Year	fA	-	-	10	ppm/yr	
DC Insulation Resistance Between any Two Pins		1.0	-	-	МΩ	
Input / Output Impendance (nominal)	-	-	150//0	-	Ω//pF	

NS = Not Specified

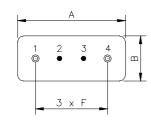
Notes:

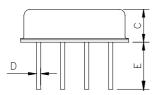
- The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR \leq 1.2:1. The test fixture L and C are adjusted for minimum insertion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

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Package Dimensions (F-11)





Electrical Connections

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

Package Dimensions

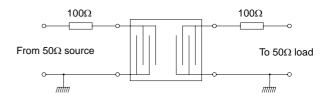
Dimensions	Nom. (mm)	Tol. (mm)
Α	11.0	±0.3
В	4.5	±0.3
С	3.2	±0.3
D	0.45	±0.1
E	5.0	±0.5
F	2.54	+0.2

Marking

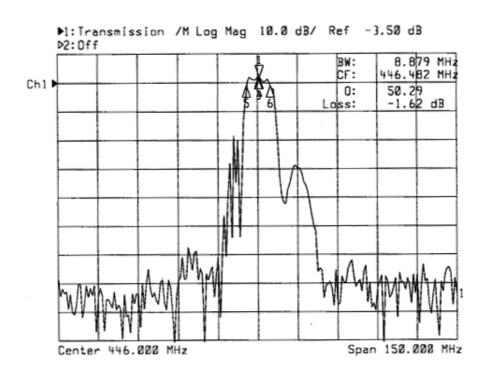
SF446B

Ink Marking
Color: Black or Blue

Test Circuit



Typical Frequency Response



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