- ***Ideal for Receiver in 446.00 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)***

SF446B

ABSOLUTE MAXIMUM RATING (T_A=25°C)			
Parameter		Rating	Unit
CW RF Power Dissipation	P	+10	dBm
DC Voltage V_{DC} Between Any Two Pins	V_{DC}	±30	V
Operating Temperature Range	T_A	-10 ~ +60	°C
Storage Temperature Range	T_{stg}	-40 ~ +85	°C

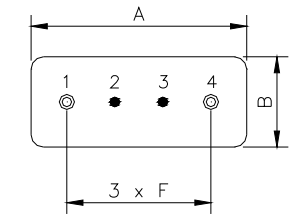
ELECTRONIC CHARACTERISTICS					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	f_C	NS	446.00	NS	MHz
Insertion Loss 443.00 … 449.00 MHz	*IL*	-	3.5	5.0	dB
User Signal Passband	*BW*	-	±3.0	-	MHz
Passband Ripple (p-p) 443.00 … 449.00 MHz	$\Delta\alpha$	-	2.0	-	dB
Attenuation (out of f_C ± 30MHz)	α_{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	-	-	MΩ
Input / Output Impedance (nominal)	-	-	150//0	-	Ω//pF

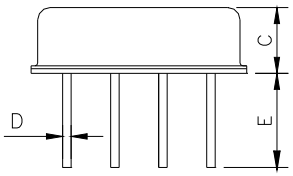
NS = Not Specified

Notes:

1. 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.
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.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. 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

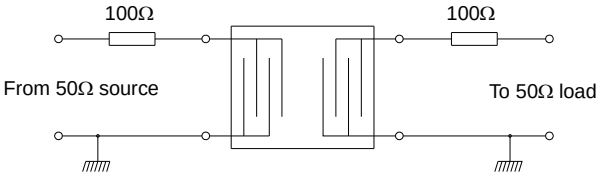
Dimensions	Nom. (mm)	Tol. (mm)
A	11.0	±0.3
B	4.5	±0.3
C	3.2	±0.3
D	0.45	±0.1
E	5.0	±0.5
F	2.54	±0.2

MARKING

SF446B

Laser or Ink Marking
Color: Black or Blue

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE