

- Ideal for Reciver in 821.50 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile F-11 Package

SF821

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)	fc	NS	821.50	NS	MHz
Insertion Loss 820.50 822.50 MHz	IL	-	4.0	5.5	dB
3dB Bandwidth	BW ₃	=	±8.0	-	MHz
Usable Bandwidth	BW	-	±1.0	-	MHz
Amplitude Ripple (p-p) 820.50 822.50 MHz	Δα	-	1.0	1.5	dB
Attenuation					
DC 791.50 MHz	$lpha_{ m rel}$	45	55	-	dB
820.50 822.50 MHz		-	4.0	5.5	dB
851.50 1021.5 MHz		40	40	-	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	-	Ω

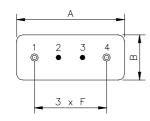
NS = Not Specified

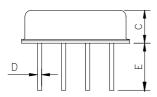
Notes:

- 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, $f_{\mathbb{C}}.$ 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.
- 7. For questions on technology, prices and delivery please contact our sales offices or email to sales@vanlong.com.



Package Dimensions (F-11)





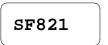
Electrical Connections

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

Package Dimensions

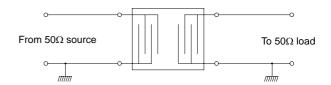
Dimensions	Nom. (mm)	Tol. (mm)
Α	11.0	±0.3
В	4.5	±0.3
С	3.2	±0.3
D	0.45	±0.1
E	5.0	±0.5
F	2.54	+0.2

Marking

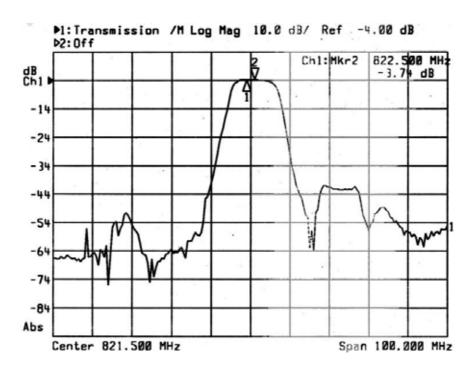


Ink Marking
Color: Black or Blue

Test Circuit



Typical Frequency Response



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