

### Ordering Information

SKU	Description	UPC
100813	Flamingo+ FM - with enclosure	0616469146571

### Description

A high-quality and high-performance bandstop filter designed to reduce and/or block the broadcast FM band for software defined radio (SDR) applications.



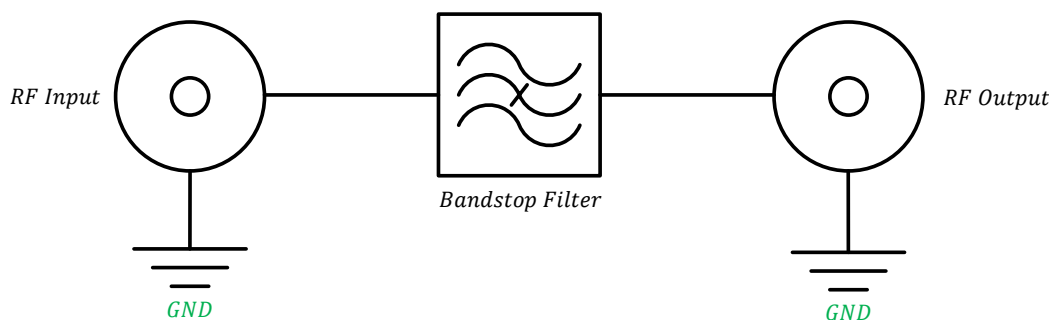
### Features

- +70dB of attenuation in the FM Broadcast band
- 46.6MHz 3dB bandwidth
- 34.3MHz 10dB bandwidth
- A 50Ω block

### Applications

- Broadcast FM blocking
- Software defined radio
- FM interference reduction
- VHF air band reception

### Simplified Schematic



### Pin Configuration and Functions



\* Flamingo FM is a passive filter and doesn't require DC power to operate.

### Recommended Operating Conditions

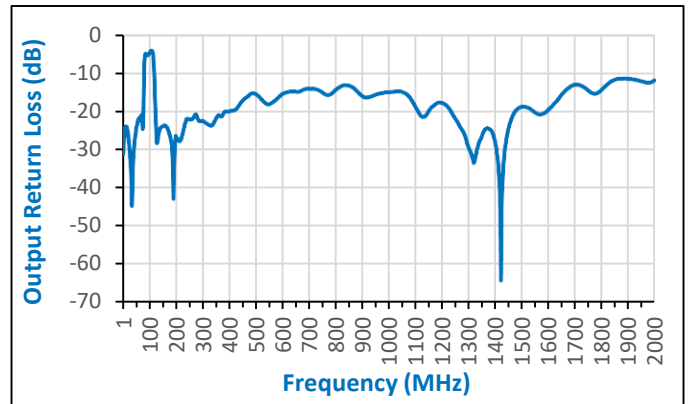
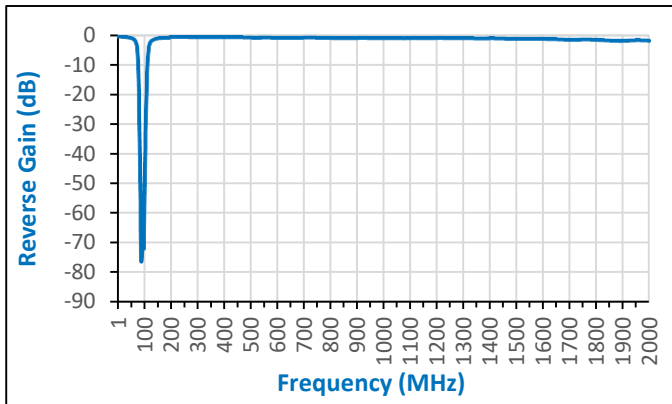
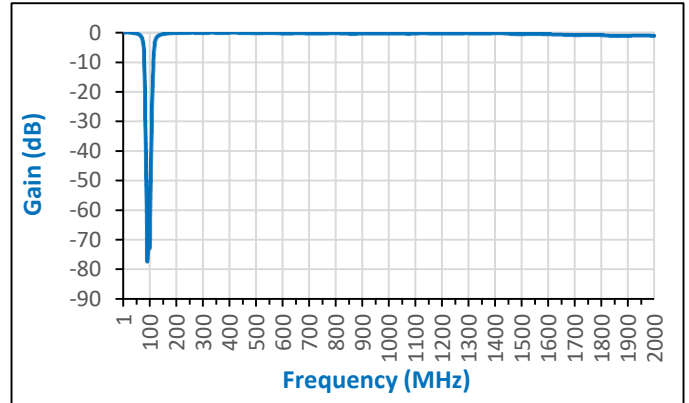
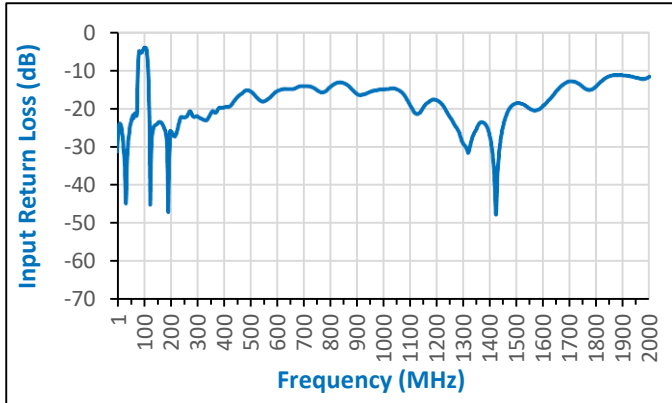
Parameter	Symbol	Min	Typical	Max	Unit
Input Power	$P_{in}$	-	-	18	dBm

### Electrical Specifications

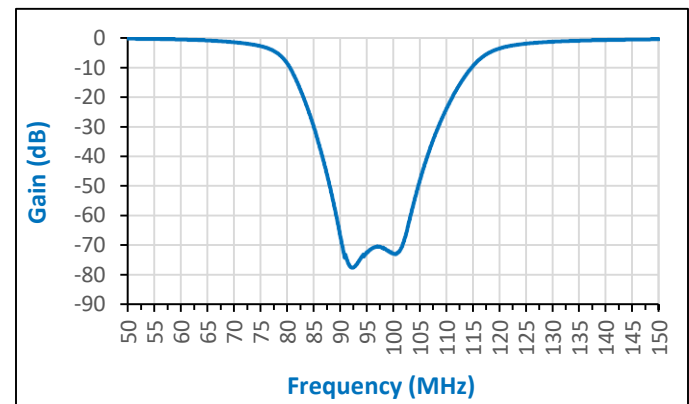
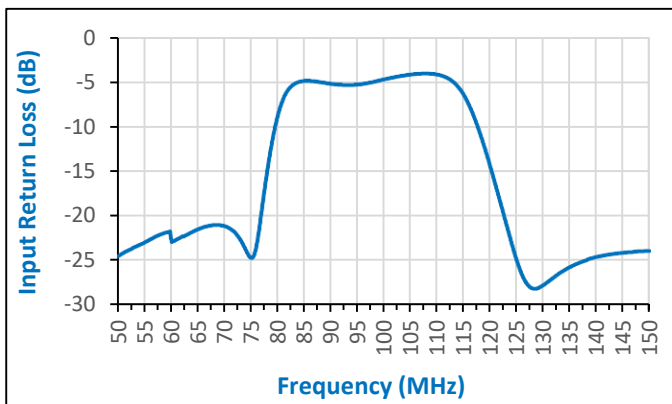
Test conditions unless otherwise specified: 50 Ohm system.

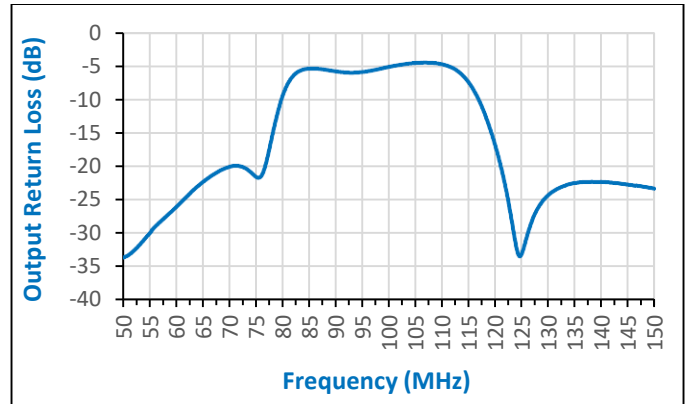
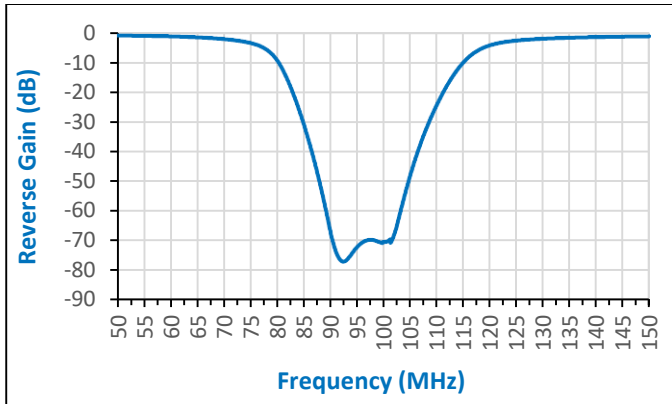
Parameter	Symbol	Min	Typical	Max	Unit
Frequency Range	$f_L - f_H$	80.5	-	114.8	MHz
3dB Bandwidth	$BW$	-	46.6	-	MHz
10dB Bandwidth	$BW$	-	34.3	-	MHz
Center Frequency	$f_o$	-	98.1	-	MHz
Stop Band Gain	S21	-77.5	-70	-10	dB
Input Return Loss	S11	-47	-20	-4.0	dB
Output Return Loss	S22	-64	-20	-4.5	dB
Pass Band Insertion Loss	$IL$	0.01	0.5	1.2	dB

### Electrical Characteristics Plots (1 MHz to 2000 MHz)



### Electrical Characteristics Plots (50 MHz to 150 MHz)





## Physical Specifications

Parameter	Value	Unit
Length	80 (3.15)	Millimeter (Inch)
Width	30 (1.18)	Millimeter (Inch)
Height	20 (0.79)	Millimeter (Inch)
Weight	39 (0.09)	Gram (Pound)

## Accessories and Related Products



<b>Nooelec LaNA - Wideband Ultra Low-Noise Amplifier (LNA)</b>	<b>SMA Attenuator Kit - 1dB to 42dB</b>	<b>Flamingo FM - Broadcast FM Bandstop Filter</b>
<b>SKU: 100812</b>	<b>SKU: 100815</b>	<b>SKU: 100780</b>