

Ordering Information

SKU	Description	UPC
100758	Distill FM - Barebones	0616469146106
100780	Flamingo FM - with enclosure	0616469146250

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.



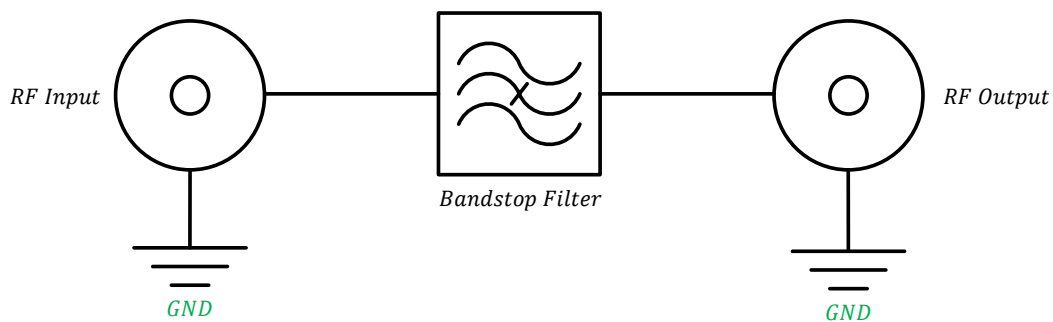
Features

- +30dB of attenuation in the FM Broadcast band
- 71MHz 3dB bandwidth
- 24MHz 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

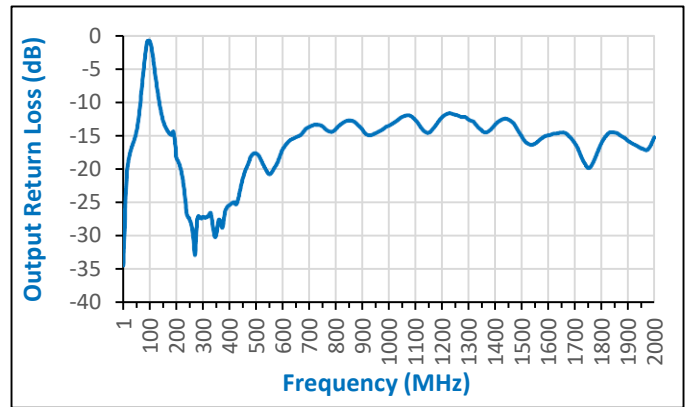
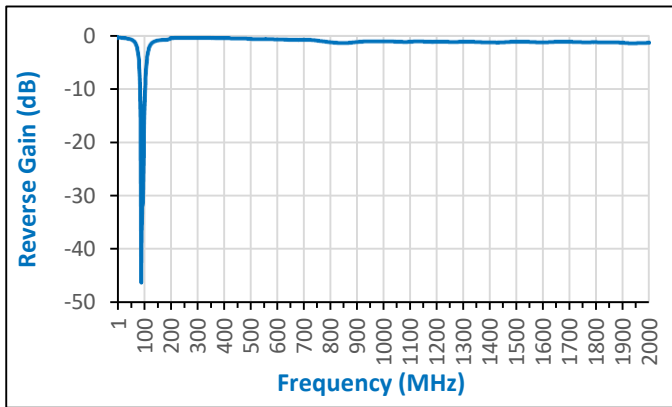
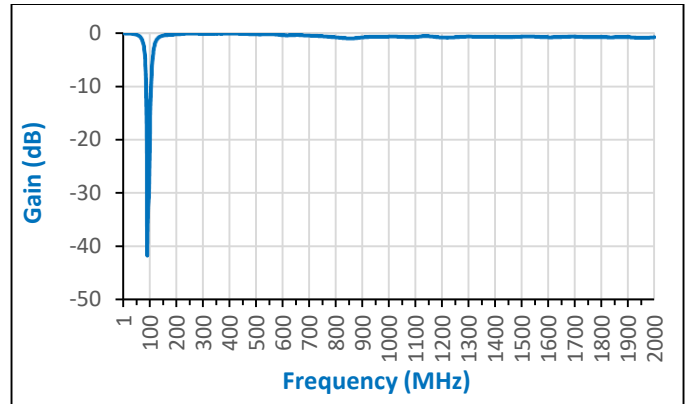
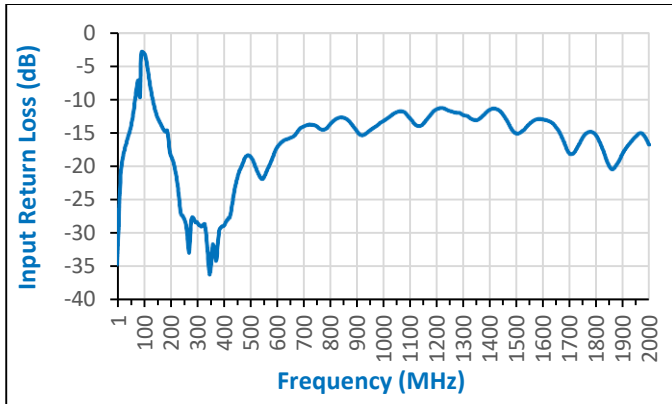
Parameter	Symbol	Min	Typical	Max	Unit
Input Power	P_{in}	-	-	18	dBm

Electrical Specifications

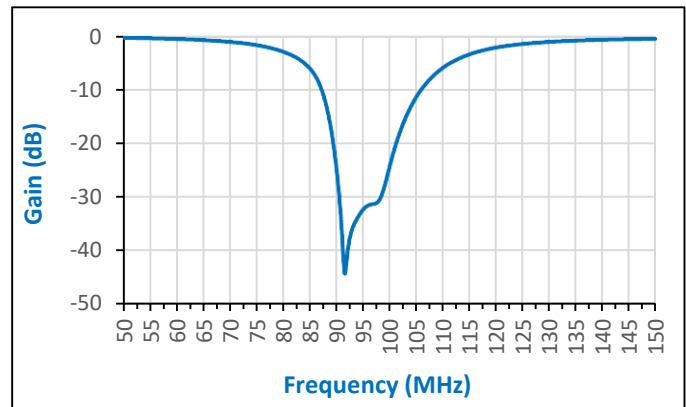
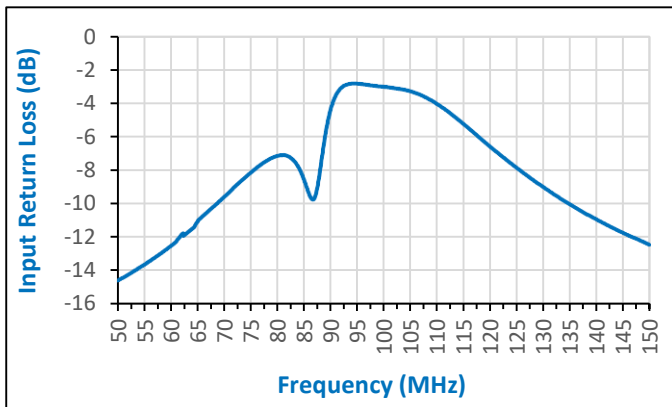
Test conditions unless otherwise specified: 50 Ohm system.

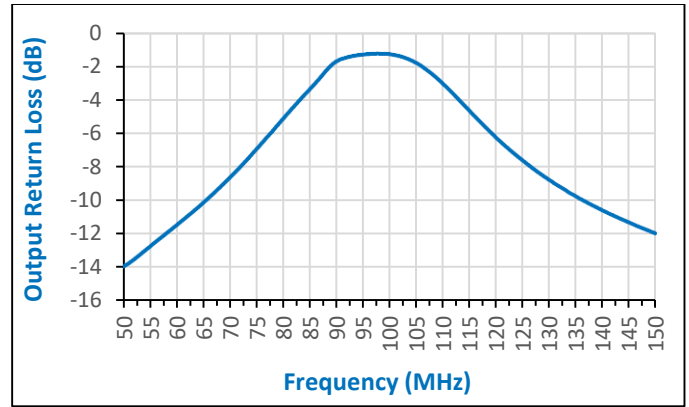
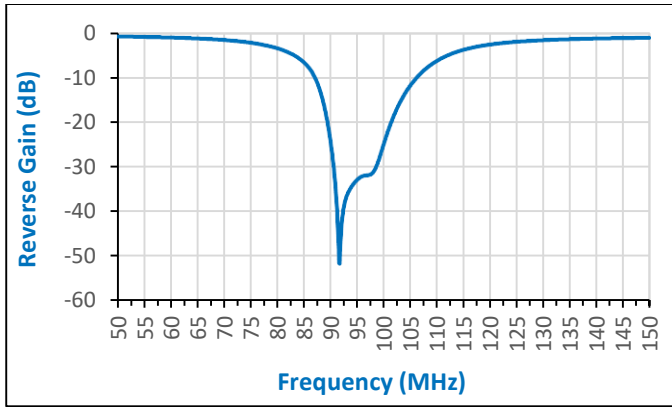
Parameter	Symbol	Min	Typical	Max	Unit
Frequency Range	$f_L - f_H$	86	-	110	MHz
3dB Bandwidth	BW	-	71	-	MHz
10dB Bandwidth	BW	-	24	-	MHz
Center Frequency	f_o	-	98	-	MHz
Stop Band Gain	S21	-51	-30	-10	dB
Input Return Loss	S11	-36	-15	-3	dB
Output Return Loss	S22	-32	-15	-1.2	dB
Pass Band Insertion Loss	IL	0.01	0.5	0.9	dB

Electrical Characteristics Plots (1 MHz to 2000 MHz)



Electrical Characteristics Plots (50 MHz to 150 MHz)





Physical Specifications

Parameter	Value	Unit
Length	70 (2.76)	Millimeter (Inch)
Width	32 (1.26)	Millimeter (Inch)
Height	20 (0.79)	Millimeter (Inch)
Weight	36 (0.08)	Gram (Pound)

Accessories and Related Products



Nooelec LaNA - Wideband Ultra Low-Noise Amplifier (LNA)	SMA Attenuator Kit - 1dB to 42dB	Flamingo+ FM - Broadcast FM Bandstop Filter
SKU: 100812	SKU: 100815	SKU: 100813