



Mini-Circuits

LUMPED LC COAXIAL

Band Stop Filter

NBSF-760+

50Ω 680 to 840 MHz N-Type

KEY FEATURES

- Low Insertion Loss, 0.9 dB Typ.
- Stopband Rejection, 42 dB Typ.
- Connectorized package

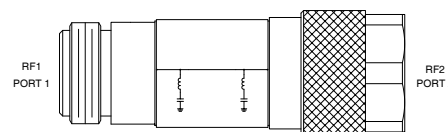


Generic photo used for illustration purposes only

APPLICATIONS

- GPS
- Public Safety Radio

FUNCTIONAL DIAGRAM



PRODUCT OVERVIEW

Mini-Circuits' Model-NBSF-760+ is a Lumped LC bandstop filter that offer a good insertion loss and high rejection. This band stop filter rejects from 680 to 840 MHz. While passing DC - 400 MHz and 1350 - 1700 MHz, this filter has high Q capacitors and inductors to achieve a low insertion loss. It has repeatable performance across production lots.

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband, Lower	Insertion Loss	DC-F1	DC - 400	—	0.9	1.5	dB
	Return Loss	DC-F1	DC - 400	7	10	—	dB
Stopband	Rejection	F4-F5	680 - 840	30	42	—	dB
Passband, Upper	Insertion Loss	F2-F3	1350 - 1700	—	0.4	1	dB
	Return Loss	F2-F3	1350 - 1700	10	20	—	dB

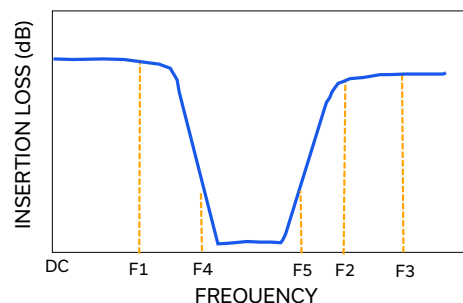
1. Bi-directional, RF1 and RF2 ports can be interchanged.

ABSOLUTE MAXIMUM RATINGS²

Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Input Power	3 W

2. Permanent damage may occur if any of these limits are exceeded.

TYPICAL FREQUENCY RESPONSE AT +25°C



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 REVOR
 ECO-026012
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 EDU5076
 URJ
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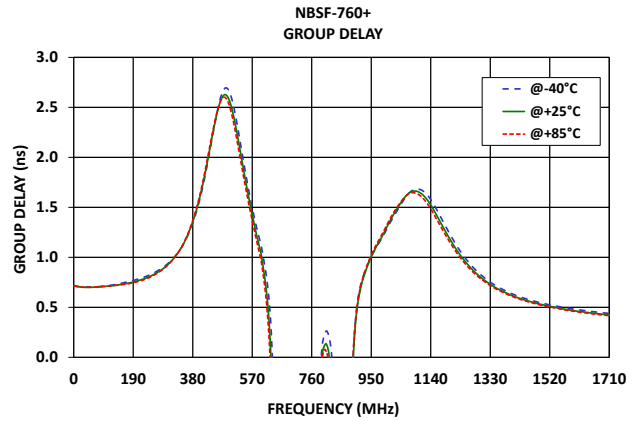
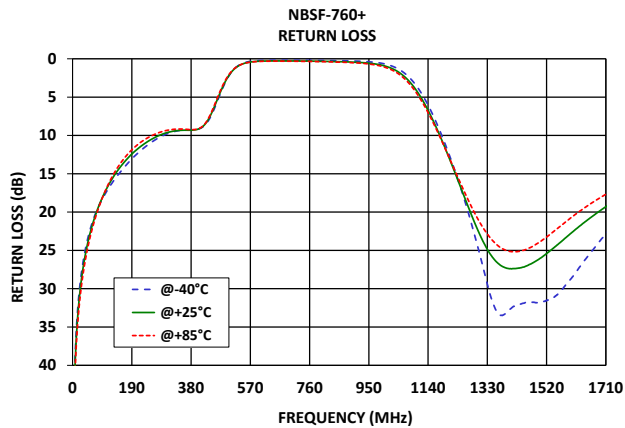
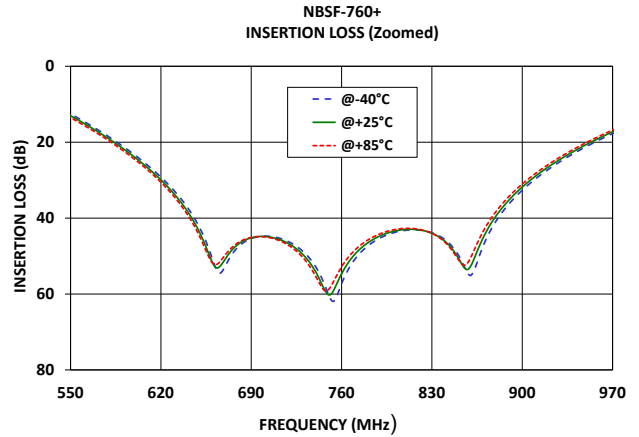
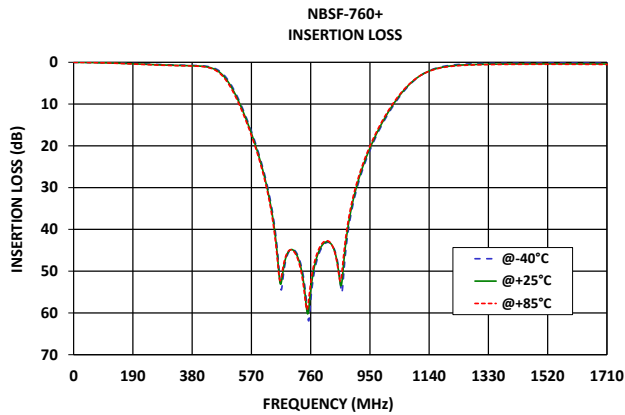
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TYPICAL PERFORMANCE GRAPHS





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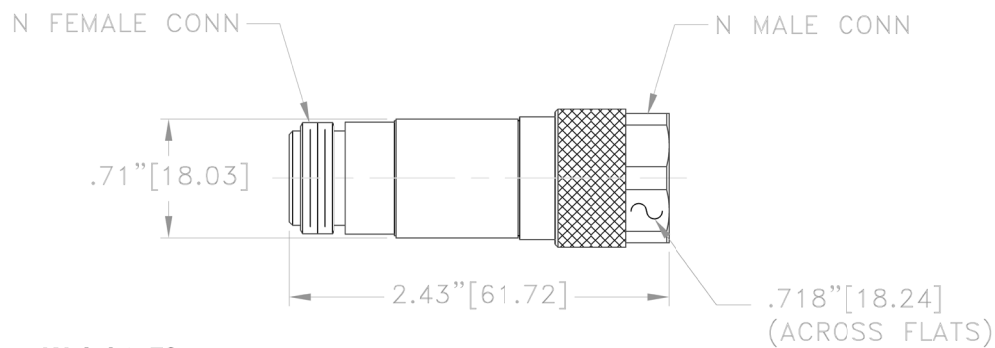
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CONNECTOR DESCRIPTION

Function	Functionality	Connector
RF1 ¹	Port-1	N- FEMALE
RF2 ¹	Port-2	N- MALE

CASE STYLE DRAWING



Weight: 73 gram

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .05/-0.04$; 3Pl. $\pm .030$

PRODUCT MARKING*: NBSF-760+

*Marking may contain other features or characters for internal lot control.



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Band Stop Filter

NBSF-760+

50Ω

680 to 840 MHz

N- Type

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	FF967
RoHS Status	Compliant
Environmental Ratings	ENV28

NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

