



9 Section Bandpass Filter With SMA Female Connectors Operating from 4.4 GHz to 4.8 GHz With a 400MHz Passband

Bandpass Filters Technical Data Sheet

PE8739A

Features

- Passband of 400 MHz
- 4.4 GHz to 4.8 GHz
- Nine section
- Combine filter design
- Min rejection 55 dB at 5.0 GHz to 5.3 GHz
- Min rejection 60 dB at 2.2 GHz to 3.7 GHz
- Maximum insertion loss of 1.25 dB
- Female SMA connectors

Applications

- Satellite Communications
- 5G Cellular Bands
- Radar

Description

The PE8739A is a nine section band pass filter that is useful for filtering for P2P and public safety uses. The pass band is 400 MHz, or 4.4 to 4.8 GHz. Implementing a combine design, the filter has excellent minimum rejection of 55 dB at 5.0 GHz and 60 dB at 3.7 GHz. It has a maximum insertion loss of 1.25 dB. The PE8739A has SMA Female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	4.4		4.8	GHz
Impedance		50		Ohms
Insertion Loss		1	1.25	dB
Passband VSWR			1.43:1	
Rejection at 5 GHz	55			dB
Rejection at 3.7 GHz	60			dB
Input Power, CW			5	Watts

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size

Length	3 in [76.2 mm]
Width	0.75 in [19.05 mm]
Height	0.53 in [13.46 mm]
Weight	0.116 lbs [52.62 g]

Configuration

Design	Combine
Number of Sections	9
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [9 Section Bandpass Filter With SMA Female Connectors Operating from 4.4 GHz to 4.8 GHz With a 400MHz Passband PE8739A](#)



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Environmental Specifications

Temperature

Operating Range

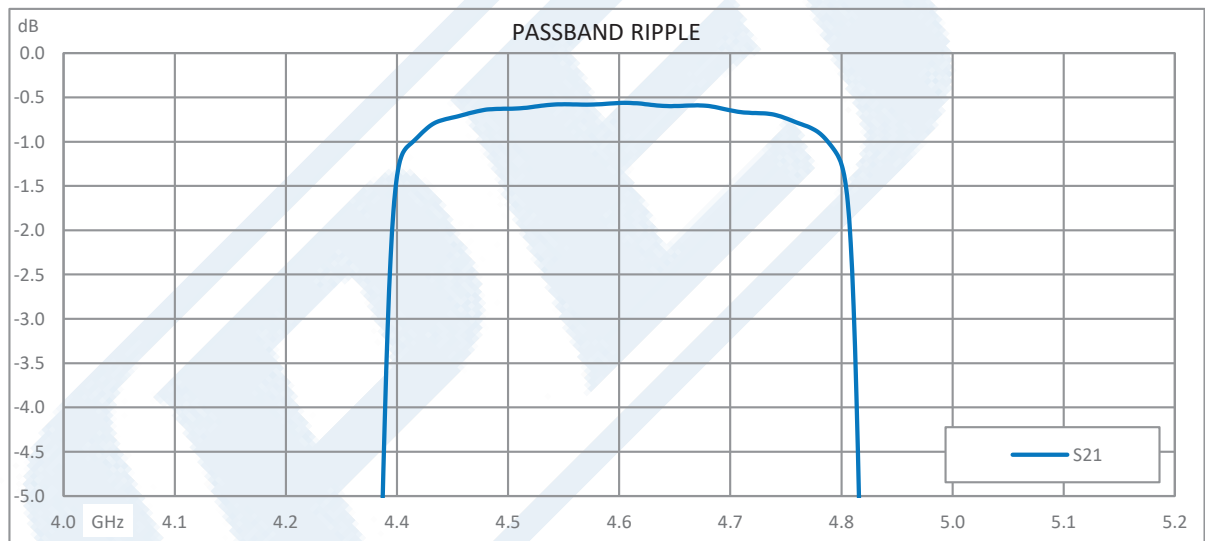
-30 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



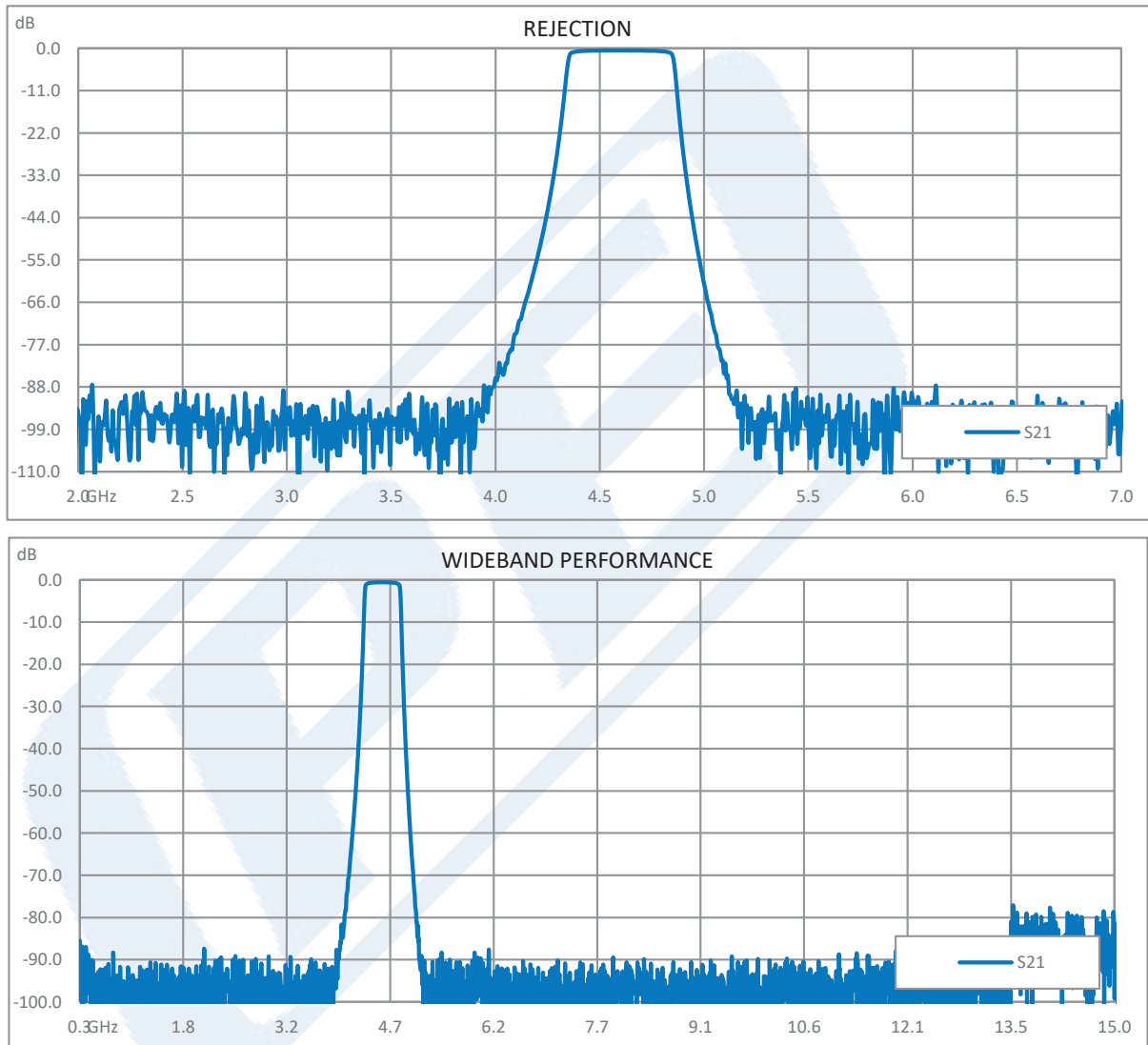
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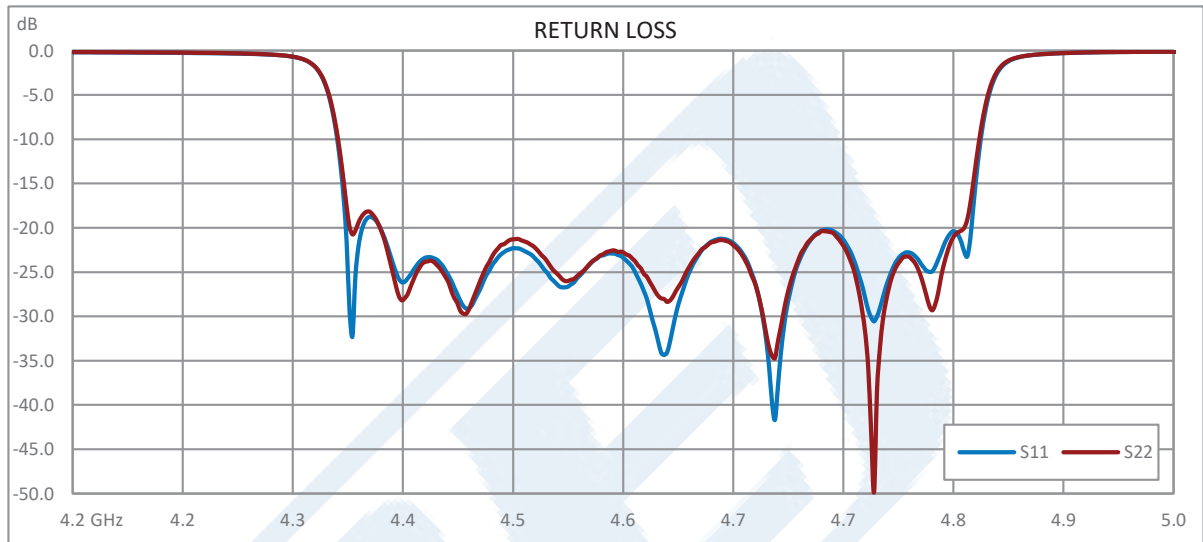
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9 Section Bandpass Filter With SMA Female Connectors Operating from 4.4 GHz to 4.8 GHz With a 400MHz Passband from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [9 Section Bandpass Filter With SMA Female Connectors Operating from 4.4 GHz to 4.8 GHz With a 400MHz Passband PE8739A](https://www.pasternack.com/band-pass-filter-4.4-4.8-ghz-passband-400-mhz-pe8739a-p.aspx)

URL: <https://www.pasternack.com/band-pass-filter-4.4-4.8-ghz-passband-400-mhz-pe8739a-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE8739A CAD Drawing

9 Section Bandpass Filter With SMA Female Connectors Operating
from 4.4 GHz to 4.8 GHz With a 400MHz Passband

F E D C B A

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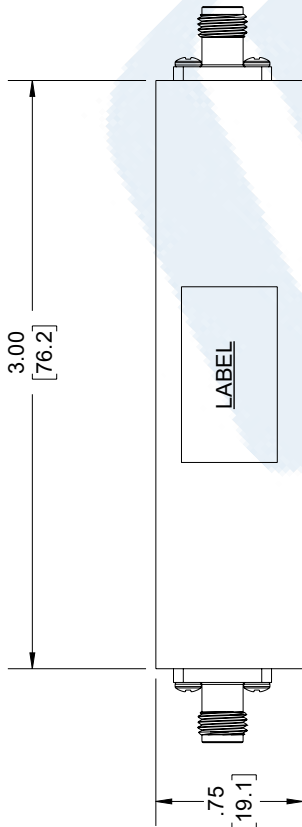
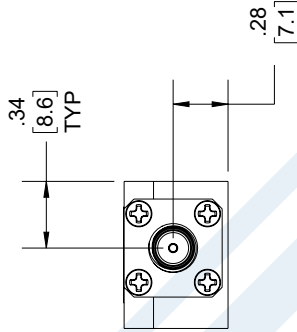
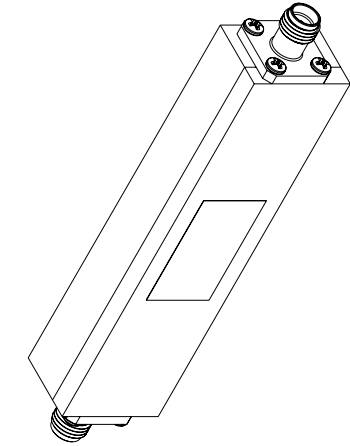
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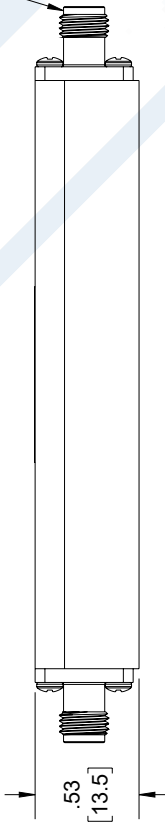
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REVISION

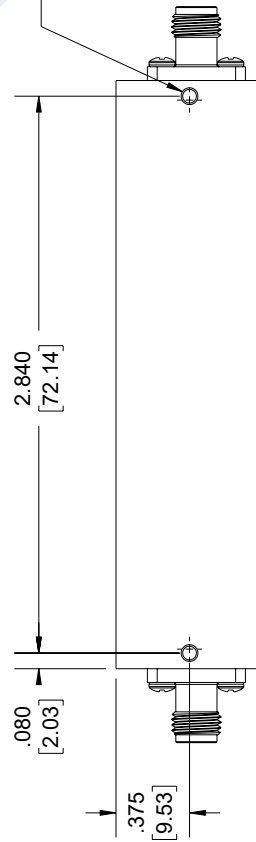
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-12756	06/23/2023	KGLEBOVA	JNAJERA



2X
SMA FEMALE



2X 2-56 UNC-2B
V. .100 [2.54]



LABEL

P/N: 8739A
4400-4500 MHz
D/C: YYWW

UNLESS OTHERWISE SPECIFIED,
LENGTHS AND ANGLES ARE IN
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:	FRACTIONS	ANGLES
.X = ±.2 [5]	± 1/32	± 1°
.XX = ±.02 [0.5]	± 1/16	
.XXX = ±.005 [0.13]		
CABLE LENGTH TOLERANCES:		
≤ 12 [305]	±.1 [25]	-0
> 12 [305]	±.1 [25]	+0
≤ 60 [1524]	±.1 [25]	+0
> 60 [1524]	±.1 [25]	+0
≤ 300 [7620]	±.1 [25]	+0
> 300 [7620]	±.1 [25]	+0
> 300 [7620]	±.1 [25]	+0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE
UNLESS OTHERWISE SPECIFIED, DIMENSIONS
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY



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INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

DESCRIPTION	SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
9 Section Bandpass Filter With SMA Female Connectors Operating from 4.4 GHz to 4.8 GHz With a 400MHz Passband	A	53919	KDANG	PE8739A	B

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