



8 Section Bandpass Filter With SMA Female Connectors Operating from 2.2 GHz to 2.5 GHz With a 300MHz Passband

Bandpass Filters Technical Data Sheet

PE8701A

Features

- Passband of 300 MHz
- 2.2 GHz to 2.5 GHz
- Eight section
- Combine filter design
- Min rejection 60 dB at 2.7 GHz to 3.7 GHz
- Min rejection 40 dB at 4.4 GHz to 5.3 GHz
- Maximum insertion loss of 0.8 dB
- Female SMA connectors

Applications

- Wifi Bands
- Cellular Bands
- Satellite Communications

Description

The PE8701A is a eight section band pass filter that is used for filtering for ISM, WiFi, Bluetooth, and Zigbee uses. The pass band is 300 MHz, or 2.2 to 2.5 GHz. Implementing a combine design, the filter has excellent rejection of 60 dB at 2.7 GHz to 3.7 GHz, or about 200 MHz from the band edges. It has a maximum insertion loss of 0.8 dB. The PE8701A has SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	2.2		2.5	GHz
Impedance		50		Ohms
Insertion Loss		0.5	0.8	dB
Passband VSWR			1.43:1	
Rejection at 2.7 GHz	60			dB
Rejection at 4.4 GHz	40			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size

Length	2.5 in [63.5 mm]
Width	1.1 in [27.94 mm]
Height	0.53 in [13.46 mm]
Weight	0.175 lbs [79.38 g]

Configuration

Design	Combine
Number of Sections	8
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: [8 Section Bandpass Filter With SMA Female Connectors Operating from 2.2 GHz to 2.5 GHz With a 300MHz Passband PE8701A](#)



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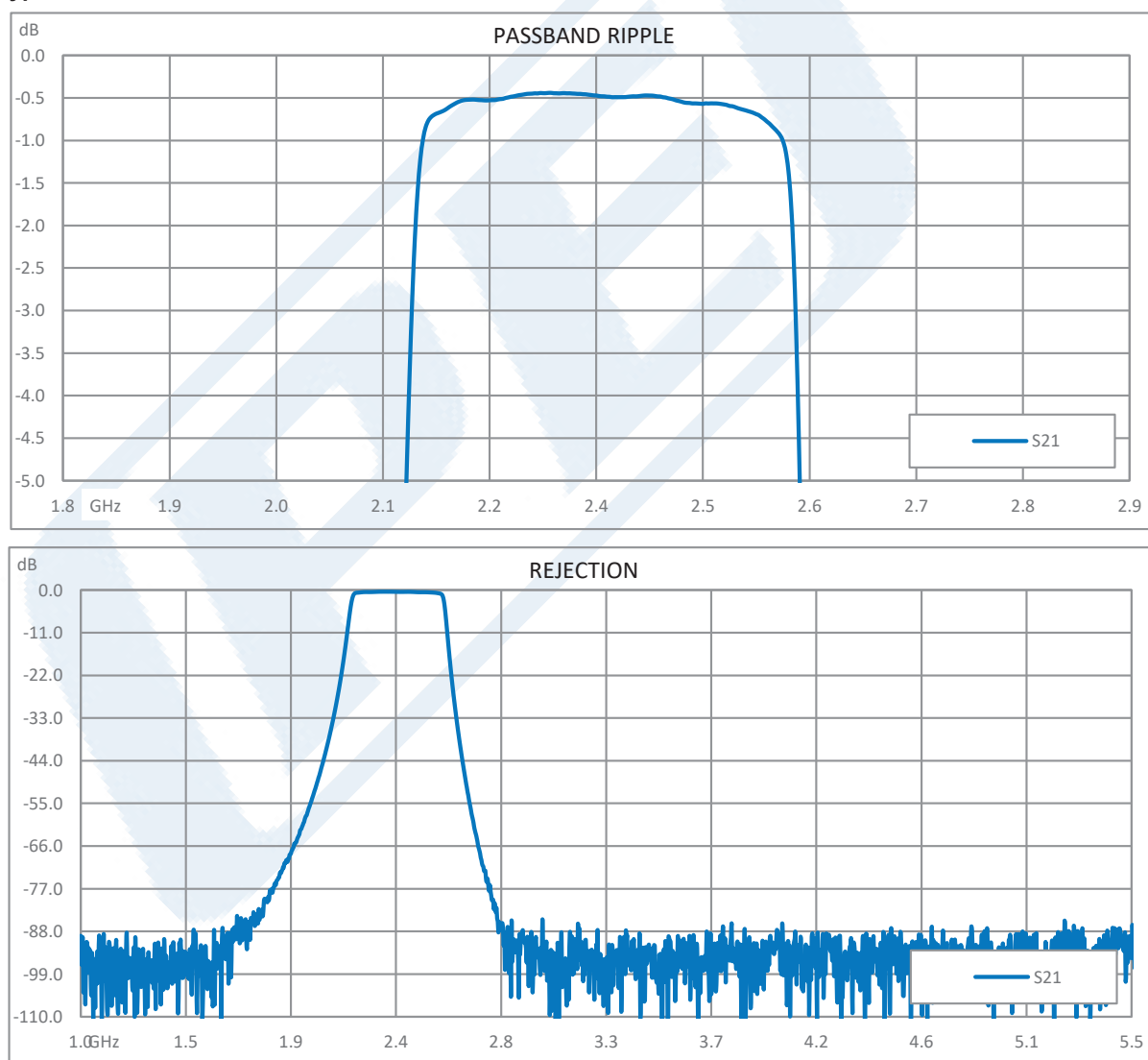
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



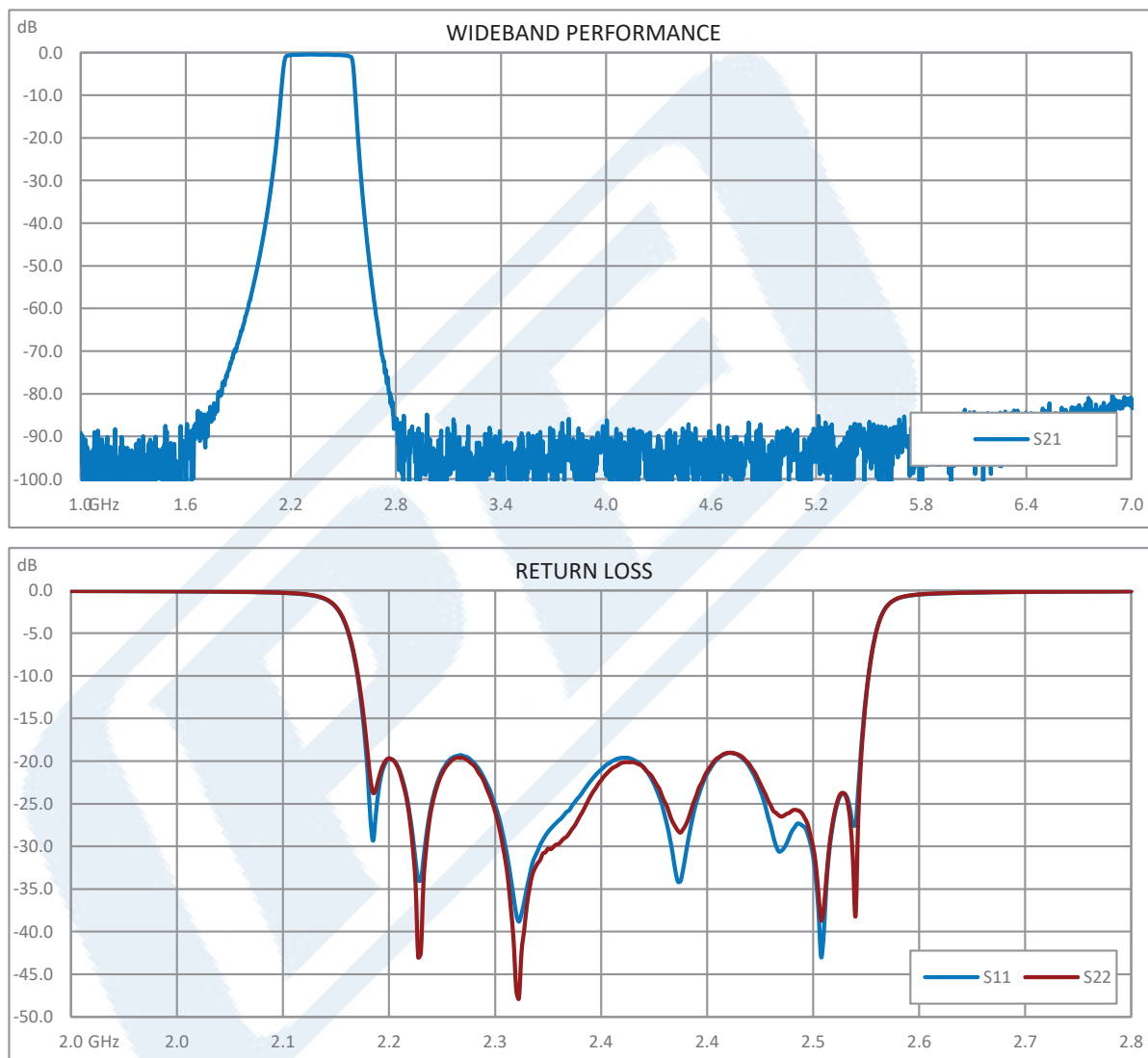
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [8 Section Bandpass Filter With SMA Female Connectors Operating from 2.2 GHz to 2.5 GHz With a 300MHz Passband PE8701A](https://www.pasternack.com/band-pass-filter-2.2-2.5-ghz-passband-300-mhz-pe8701a-p.aspx)

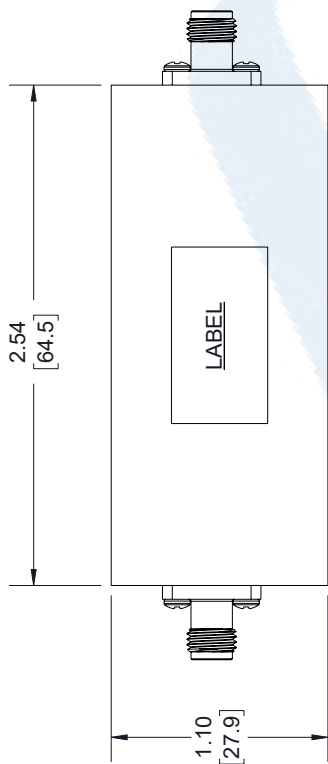
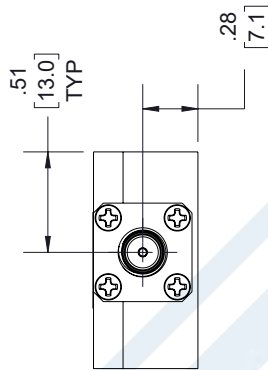
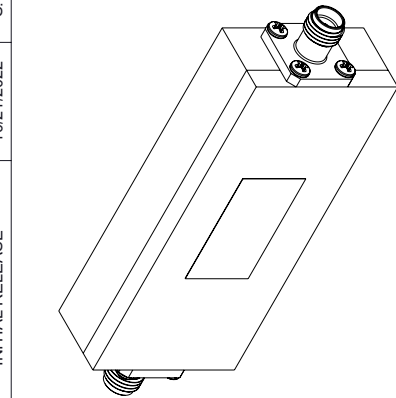
URL: <https://www.pasternack.com/band-pass-filter-2.2-2.5-ghz-passband-300-mhz-pe8701a-p.aspx>

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.

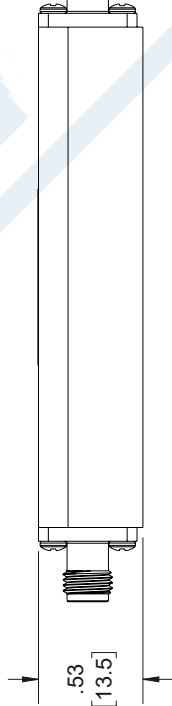
PE8701A CAD Drawing

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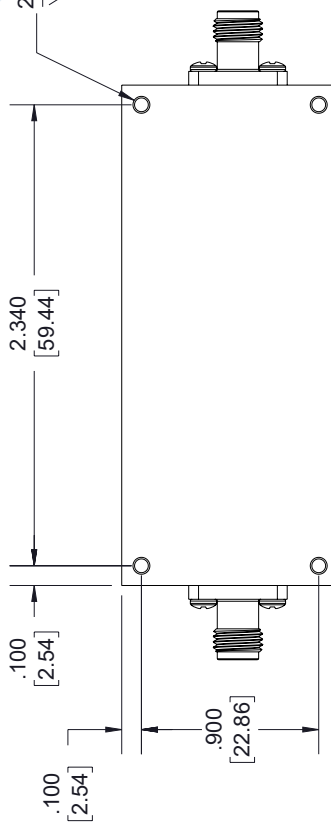
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/21/2022	S. PONG



2X
SMA FEMALE



2X 2-56 UNC-2B
∅ .130 [3.30]



LABEL

P/N: 8701A
2200-2500 MHz
D/C: YYWW

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L = +5% / -0	

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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an INFINITI brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

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SHEET 1 OF 1
SCALE N/A

REV A

ITEM NO. PE8701A

SIZE A CAGE CODE 53919 DRAWN BY K.DANG