



# Filters & Combiners

DATA SHEET

1800 MHz RX Bandpass Test Filter

BPT-1710785-0-S3



- 1W filter with an RX band pass of 75 MHz in the 1800 MHz RX Band
- Excellent rejection of  $\geq 20$  dB within 20 MHz of the pass band
- High reliability of >500K Hours MTBF

## Overview

Communication Components, Inc. Dual bandpass filter allows a 75 MHz pass band in the RX portion of the 1800 MHz Band, while rejecting signals within 20 MHz of the passband.

The CCI Bandpass filter provides optimal performance for the passband with low insertion loss, low Intermodulation, and high power handling. Excellent return loss delivers the best match to the antennas and base station, saving precious transmit power. The Bandpass filter is the ideal solution for providing additional rejection at the band edge.

## Technical Description:

The bandpass filter consists of multiple cavity resonators to achieve 20 dB of rejection within 20 MHz of the pass band. Extensive temperature compensation is employed to insure frequency stability over the specified temperature range.



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## SPECIFICATIONS

### 1800 MHz RX Bandpass Test Filter

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#### Electrical

RF Parameters	Ports	Frequency(MHz)	Specification
Return Loss	Input TX/RX	1710-1785	15 dB minimum
	Output TX/RX	1710-1785	15 dB minimum
Insertion Loss	Input to Output	1710-1785	1.5 dB maximum
Rejection	Input to Output	1690	20 dB minimum
		1805	20 dB minimum

General Characteristics	
Impedance	50 ohms
Continuous Average Power	1 W max.
Peak Power	10 W Max.

#### Environmental

Operating Temperature	-20 °C to +70 °C
Ingress Protection	IP20 (Indoor)
MTBF	>500,000 hours

#### Mechanical

Model	Single
Connectors	2 x N-female
Housing Dimensions (HxWxD)	84.0 x 50.0 x 30.0 mm (3.31 x 1.97 x 1.18 in.)
Dimensions w/Connectors (HxWxD)	122.0 x 50.0 x 30.6 mm (4.80 x 1.97 x 1.20 in.)
Weight	0.32 kg (0.7 lbs)
Mounting	Optional mounting bracket available

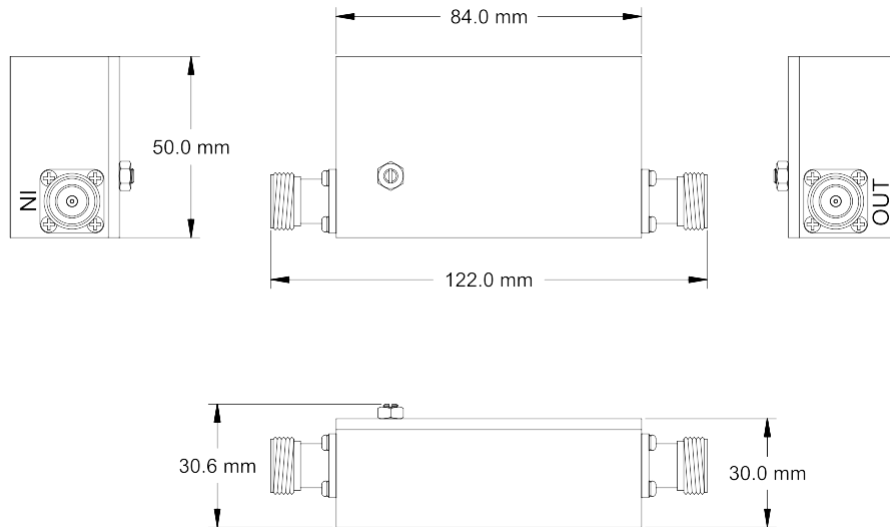


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## SPECIFICATIONS

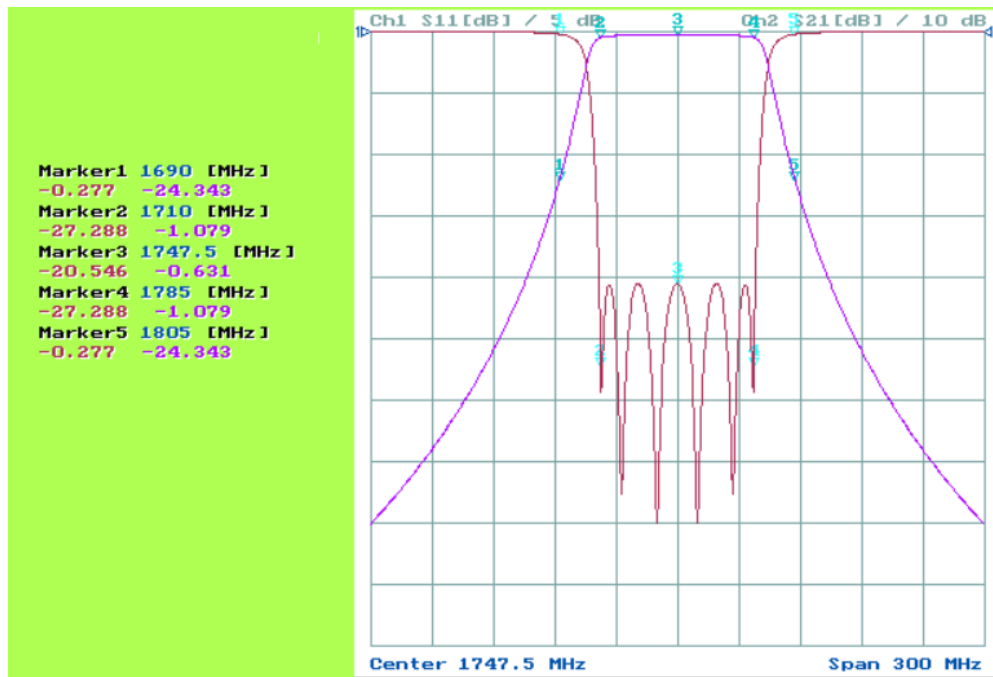
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Indoor Passband Filter Outline Drawing BPT-1710785-0-S3

### Filter Characteristics



BPT-1710785-0-S3 RX Filter Characteristics



# Filters & Combiners

## STANDARDS & CERTIFICATIONS

### 1800 MHz RX Bandpass Test Filter

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#### Parts & Accessories

<b>BPT-1710785-0-S3</b>	Single 75 MHz Outdoor Bandpass filter pass band of 1710-1785 MHz with N-female connectors and No DC/AISG Pass-thru
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#### Standards & Compliance

<b>Safety</b>	EN 60950-1, UL 60950-1
<b>Emission</b>	EN 55022
<b>Immunity</b>	EN 55024
<b>Environmental</b>	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, IEC61000-4-5, GR-63-CORE 4.3.1, EN 60529 IP67, IP68

#### Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001



**CCI** Communication Components Inc.  
EXTENDING WIRELESS PERFORMANCE