

# FLP-3200

## 32 GHz Lowpass Filter

### DEVICE OVERVIEW

#### General Description

This general purpose low pass filter offers high stop band suppression and low insertion loss in the passband. These filters can be used to eliminate unwanted side bands during frequency conversion or for removing spurious interference and noise.

[Download s-parameters here](#)



#### Features

- Low Insertion Loss
- Excellent Return Loss
- High Stop Band Suppression
- 15th Order Filter

#### Applications

- Test and Measurement Equipment
- SATCOM
- Radar
- RF Transceivers

#### Functional Block Diagram



#### Part Ordering Options

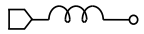
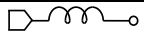
Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
FLP-3200	32 GHz Lowpass Filter	<u>Standard</u>	Non-RoHS	Released	EAR99

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## Port Configuration and Functions

### Port Functions

Port	Function	Connector Type	Description	DC Equivalent Circuit
Port 1	Input/Output	2.92F	Port 1 is DC short to Port 2 and DC open to GND. GND is provided through the case and RF connectors.	
Port 2	Input/Output	2.92F	Port 2 is DC short to Port 1 and DC open to GND. GND is provided through the case and RF connectors.	

## Specifications

### Package Information

Parameter	Details	Rating
Weight	-	16.5g
Dimensions	-	20.31 x 14.99 mm

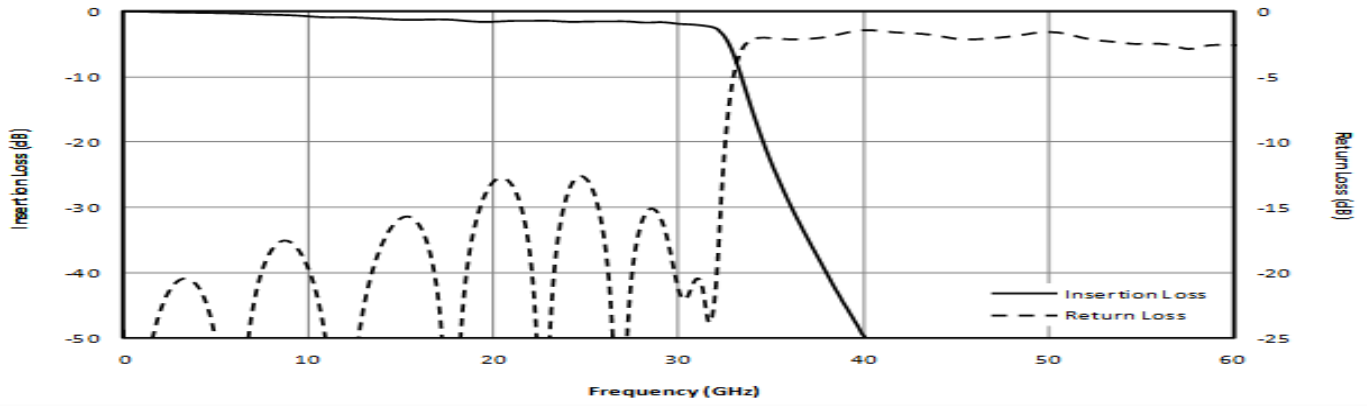
## Electrical Specifications

Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

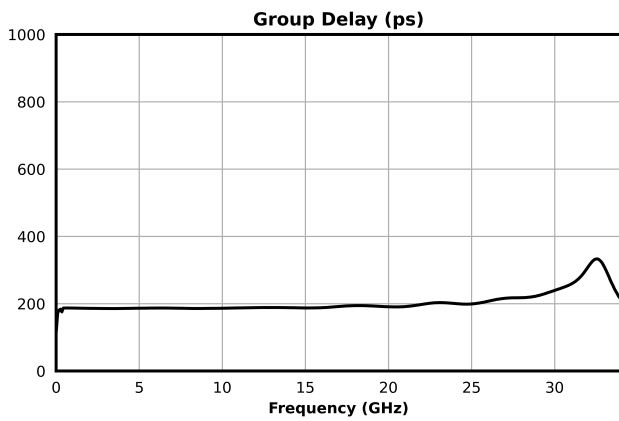
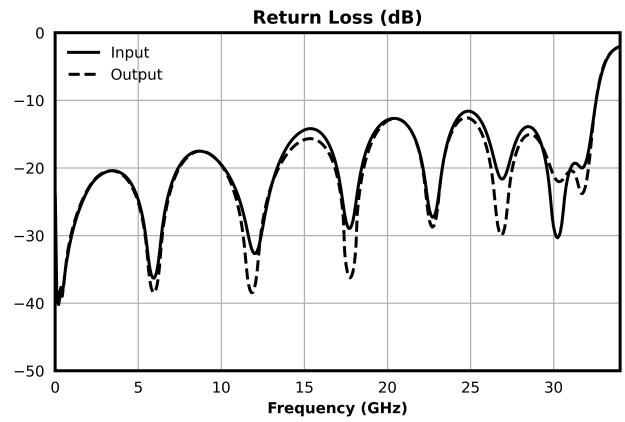
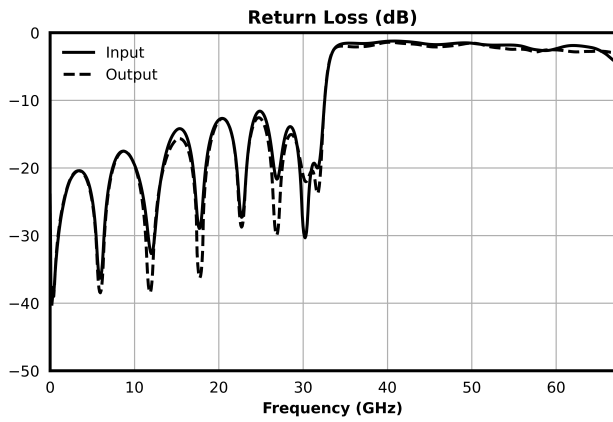
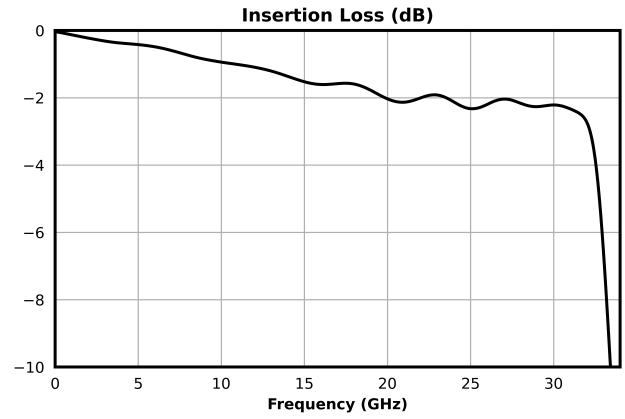
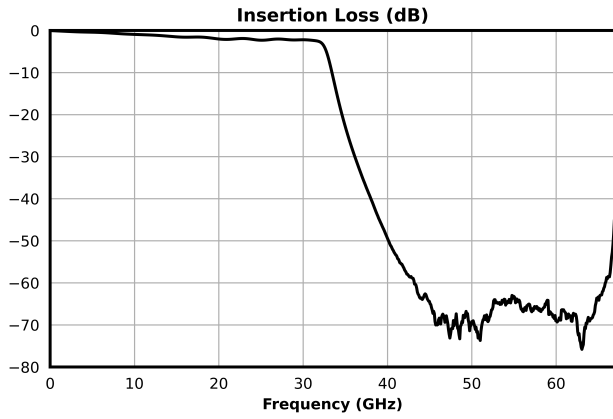
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
1 dBc Passband <sup>1</sup>	Configuration A, Temp = 25°C	-	11.4	-	-	-	GHz
3 dBc Passband <sup>2</sup>	Configuration A, Temp = 25°C	-	32.17	-	-	-	GHz
30 dBc Rejection Point <sup>3</sup>	Configuration A, Temp = 25°C	-	36.1	-	-	-	GHz
Center Freq <sup>4</sup>	Configuration A, Temp = 25°C	-	-	-	5.70	-	GHz
Passband Return Loss <sup>5</sup>	Configuration A, Temp = 25°C	-	-	-	22	-	dB
Group Delay <sup>6</sup>	Configuration A, Temp = 25°C	-	-	-	186	-	ps
Impedance <sup>7</sup>	Configuration A, Temp = 25°C	-	-	-	50	-	Ω
Impedance	-	-	-	-	50	-	Ω
Passband Insertion Loss	DC-31 GHz	0	31	-	1.8	-	dB
Passband Return Loss	DC-31 GHz	0	31	10	15	-	dB
RF Power	-	-	-	-	-	1	W
Stopband Suppression	36.5 GHz	36.5	36.5	25	30	-	dB
Stopband Suppression	>41.5 GHz	41.5	-	40	50	-	dB

[1][2][3][4][5][6][7] No

**Typical Performance**



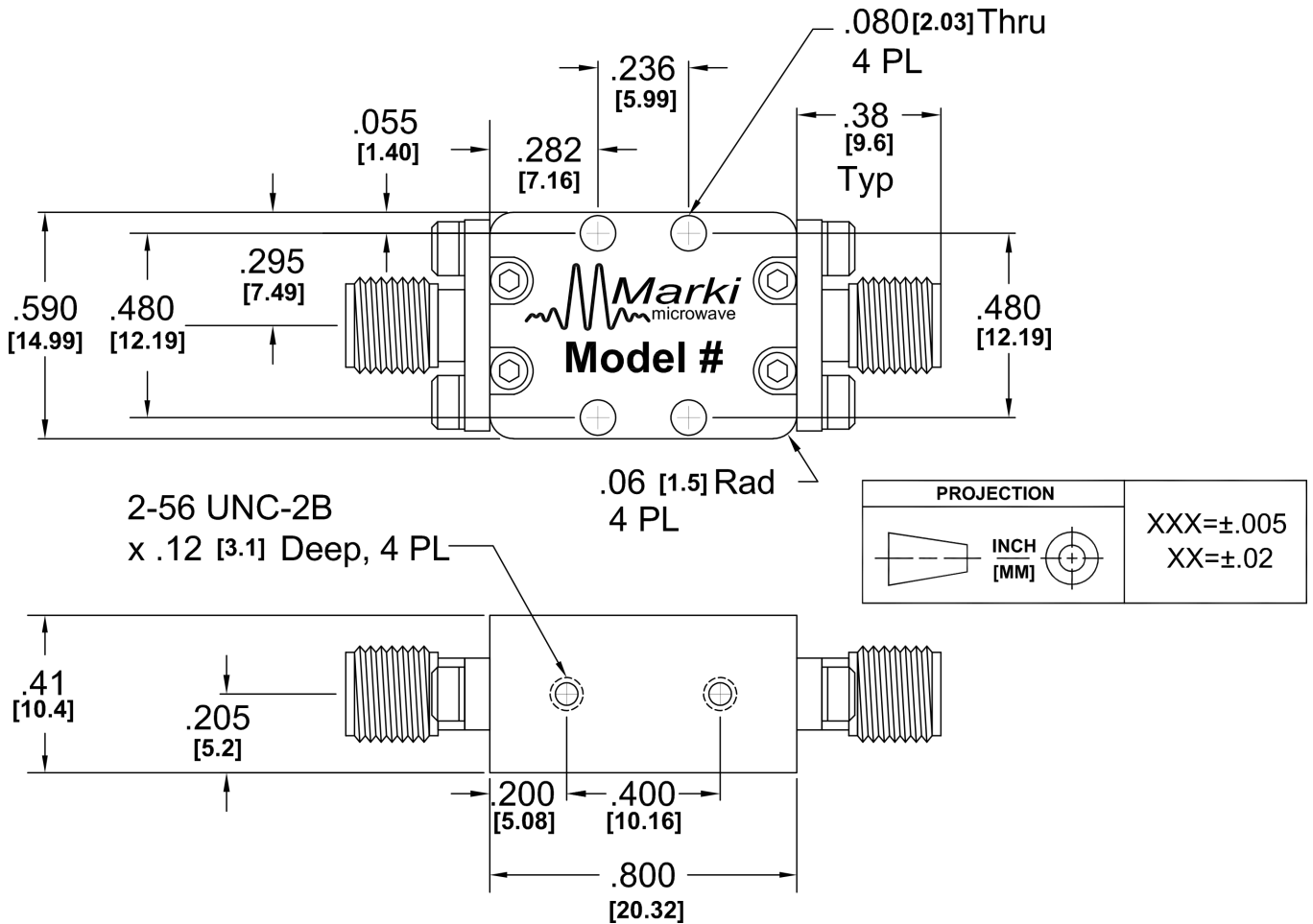
**Typical Performance Plot**



**Mechanical Data**

**Outline Drawing**

Download : [Outline 2D Drawing](#) | [Outline 3D Drawing](#) | [Outline 3D STP](#)



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