

FLP-2150

21.5 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
- 11th 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-2150	21.5 GHz Lowpass Filter	<u>Standard</u>	Non-RoHS	Released	EAR99

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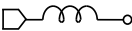
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Port Configuration and Functions

Port Functions

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

Specifications

Package Information

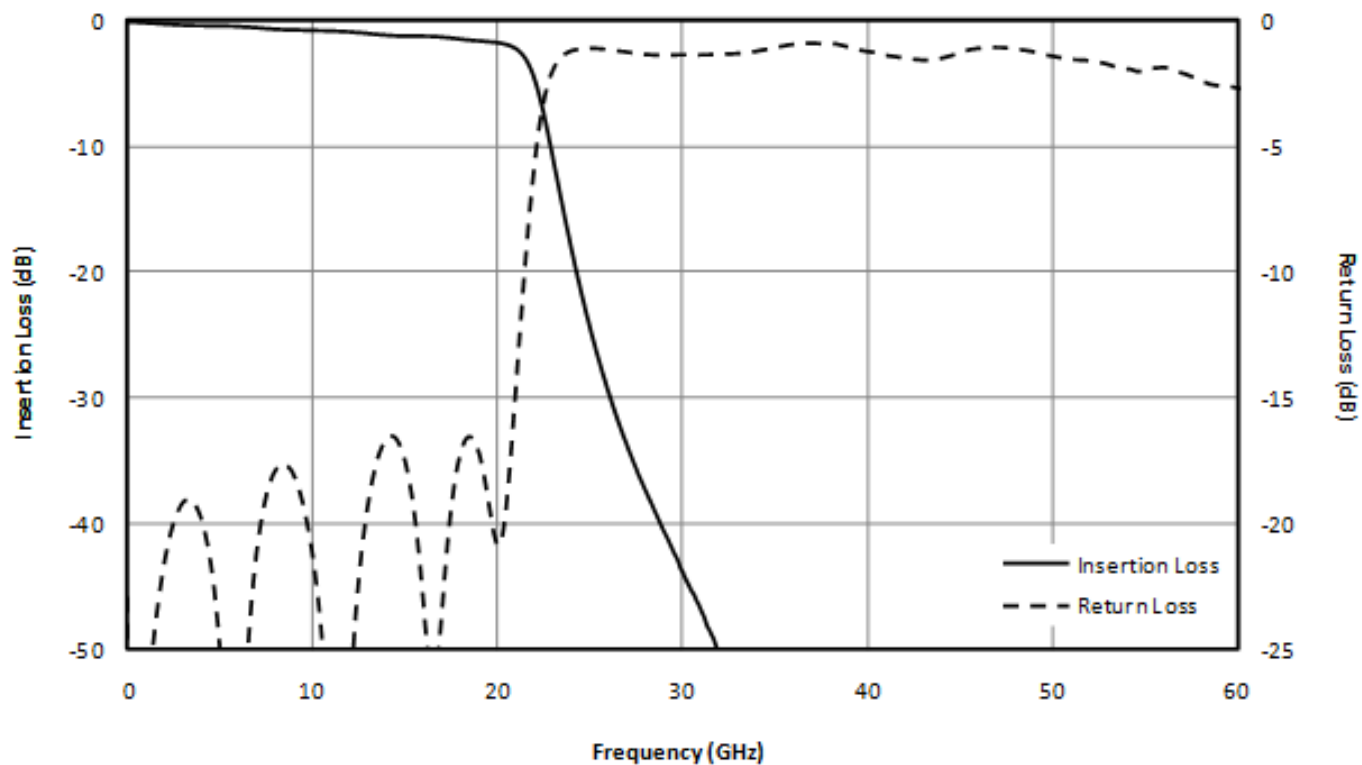
Parameter	Details	Rating
Weight	-	16.5g
Dimensions	-	20.31 x 14.99 mm

Electrical Specifications

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

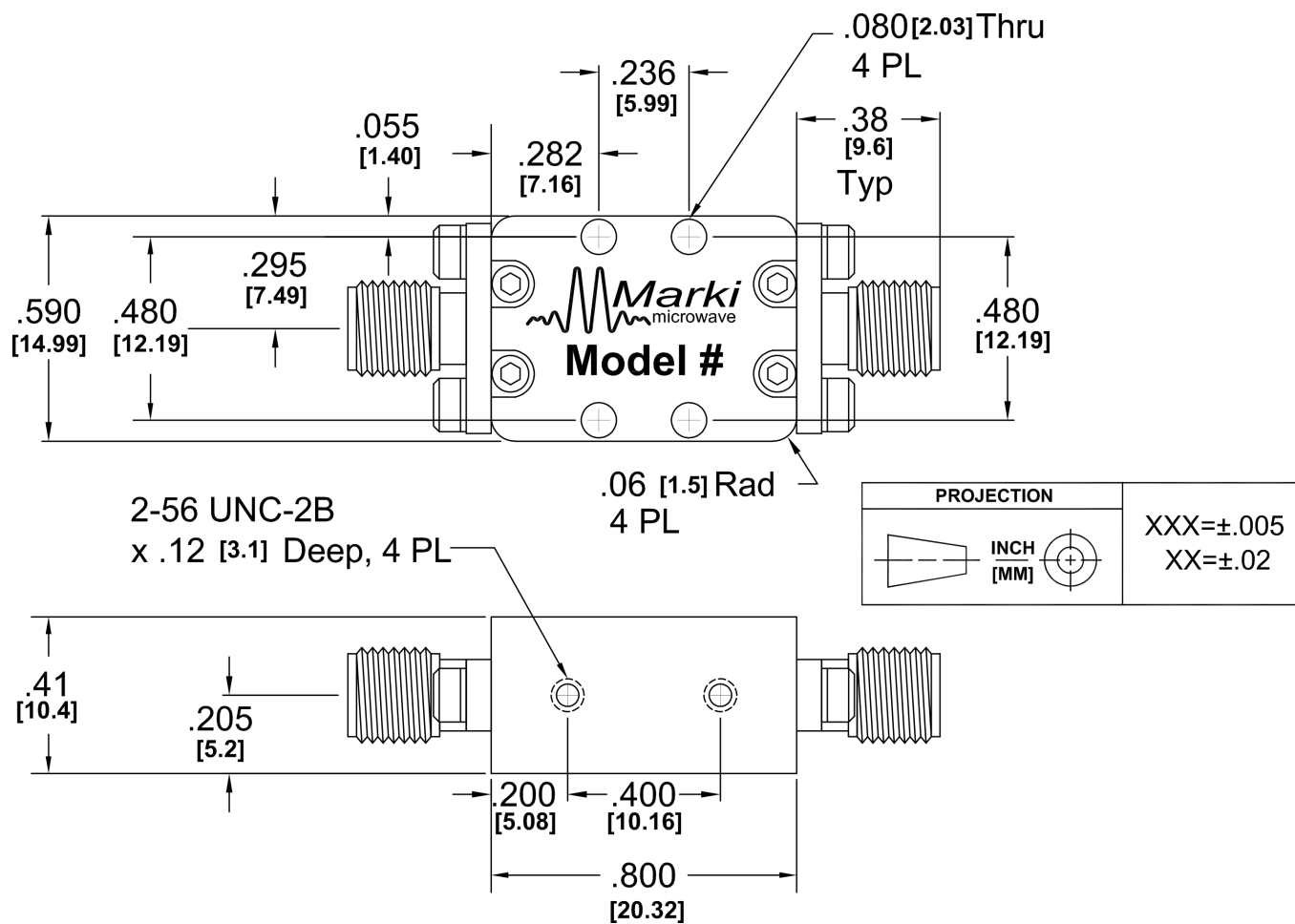
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
3 dB Cutoff Frequency	21.5 GHz	21.5	21.5	-	21.5	-	GHz
Impedance	-	-	-	-	50	-	Ω
Passband Insertion Loss	DC-20.5 GHz	0	20.5	-	1.2	-	dB
Passband Return Loss	DC-20.5 GHz	0	20.5	12	18	-	dB
RF Power	-	-	-	-	-	1	W
Stopband Suppression	26.2 GHz	26.2	26.2	25	30	-	dB
Stopband Suppression	>32 GHz	32	-	40	50	-	dB

Typical Performance



Mechanical Data

Outline Drawing



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