

FLP-3660

36.6 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
- 17th 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-3660	36.6 GHz Lowpass Filter	<u>Standard</u>	Non-RoHS	Released	EAR99

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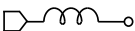
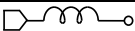
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Port Configuration and Functions

Port Functions

Port	Function	Connector Type	Description	Equivalent Circuit for Package
Port 1	Input/Output	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

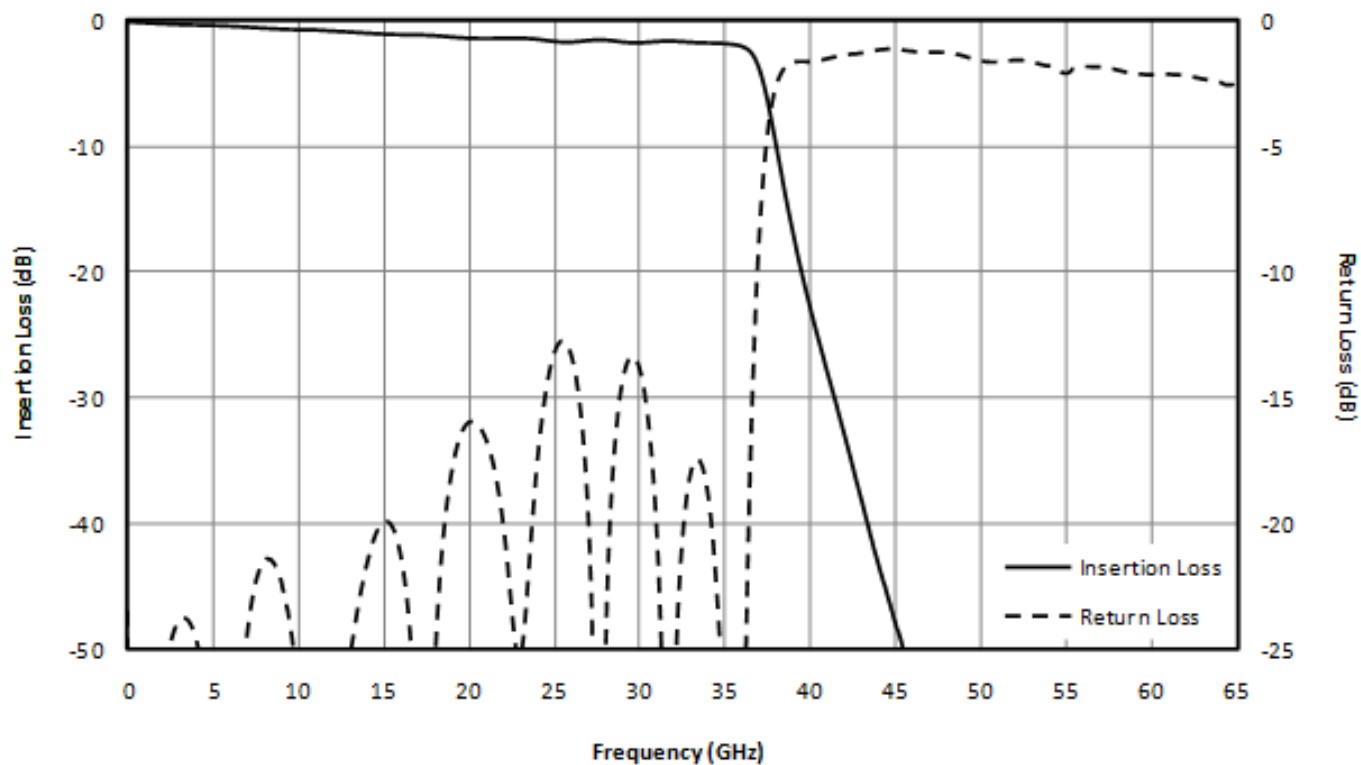
Parameter	Details	Rating
Weight	-	16.5g
Dimensions	-	20.31 x 14.99 mm

Electrical Specifications

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

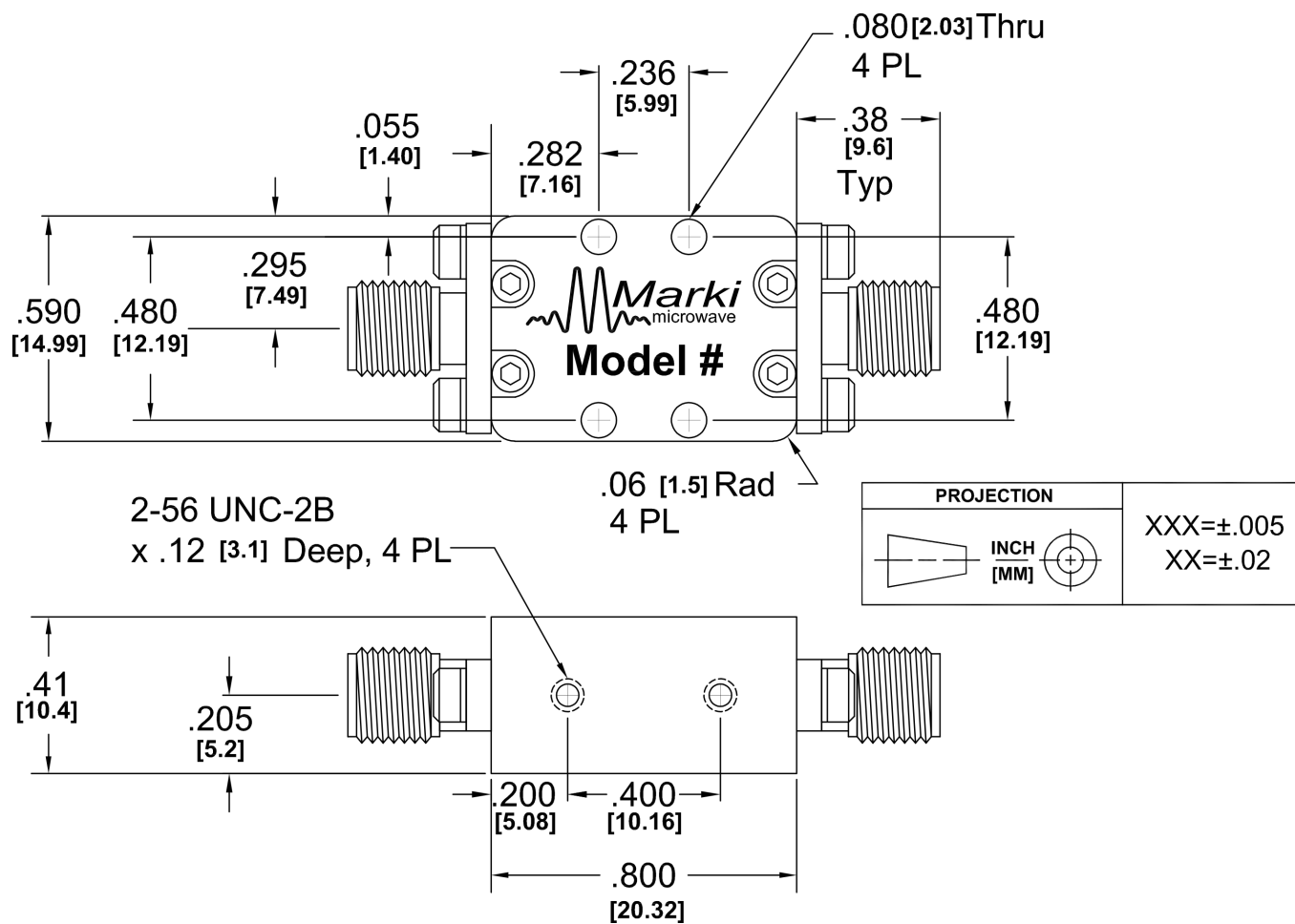
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
3 dB Cutoff Frequency	36.6 GHz	36.6	36.6	-	36.6	-	GHz
Impedance	-	-	-	-	50	-	Ω
Passband Insertion Loss	DC-36.4 GHz	0	36.4	-	1.8	-	dB
Passband Return Loss	DC-36.4 GHz	0	36.4	10	15	-	dB
RF Power	-	-	-	-	-	1	W
Stopband Suppression	41.5 GHz	41.5	41.5	25	30	-	dB
Stopband Suppression	>46 GHz	-	46	40	50	-	dB

Typical Performance



Mechanical Data

Outline Drawing



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