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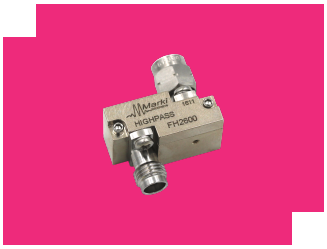
# FH-2600

## 26 GHz Highpass Filter

## DEVICE OVERVIEW

### General Description

This general purpose high 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 up-conversion or for removing spurious interference and noise. Filters with customized frequency cutoff, usable passband and stopband rejection are available upon customer request. Contact the factory for more details.



Download s-parameters here

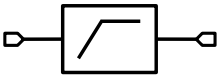
### Features

- Low Insertion Loss
- High Stop Band Attenuation
- Compact Size
- User defined options available

### Applications

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

### Functional Block Diagram



### Part Ordering Options

| Part Number | Description | Package | Packing Size | Green Status | Product Lifecycle | Export Classification |
|---|---|---|---|---|---|---|
| FH-2600 | 26 GHz Highpass Filter | - | - | RoHS | Released | EAR99 |

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## Table Of Contents



## Revision History

| Revision Code | Revision Date | Comment |
|---|---|---|
| - | 2023-05-27 | Datasheet Initial Release |



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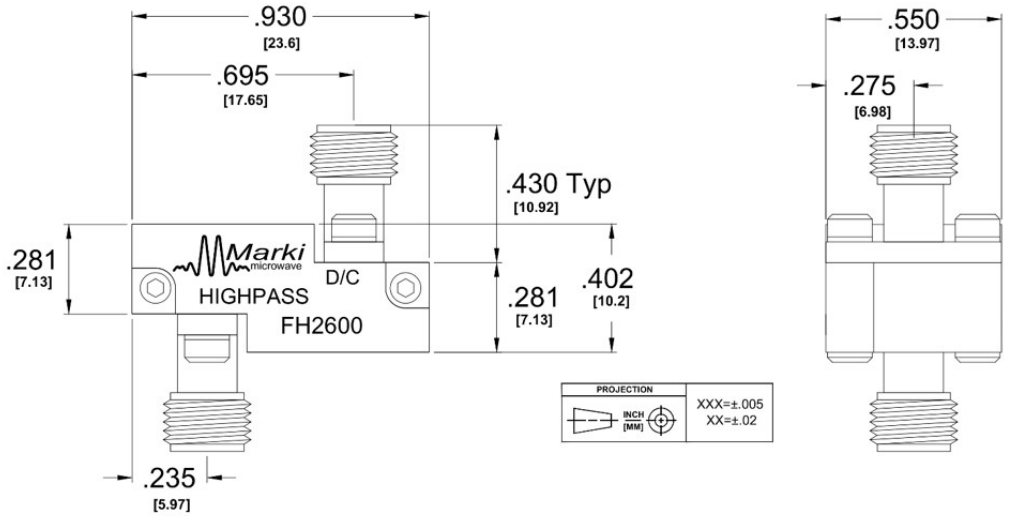
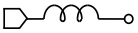
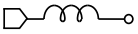
## Port Configuration and Functions

### Port Diagram




## Port Functions

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



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## Specifications

### Package Information

| Parameter | Details | Rating |
|---|---|---|
| Dimensions | - | 23.6 x 10.2 mm |


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## 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 |
|---|---|---|---|---|---|---|---|
| Cutoff Frequency | - | 26 | 26 | - | 26 | - | GHz |
| Impedance | - | - | - | - | 50 | - | Ω |
| Passband Insertion Loss | 26 - 50 GHz | 26 | 50 | - | 1 | 2.5 | dB |
| Passband Return Loss | 26 - 50 GHz | 26 | 50 | 8 | - | - | dB |
| RF Power | - | - | - | - | - | 15 | W |
| Stopband Suppression | DC - 11 GHz | 0 | 11 | 70 | 80 | - | dB |
| Stopband Suppression | - | 18 | 18 | 40 | 50 | - | dB |
| Stopband Suppression | - | 21.5 | 21.5 | 25 | 30 | - | dB |



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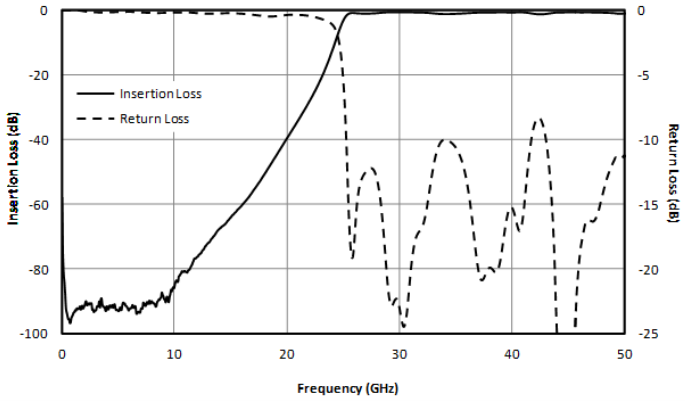
## Typical Performance Plot





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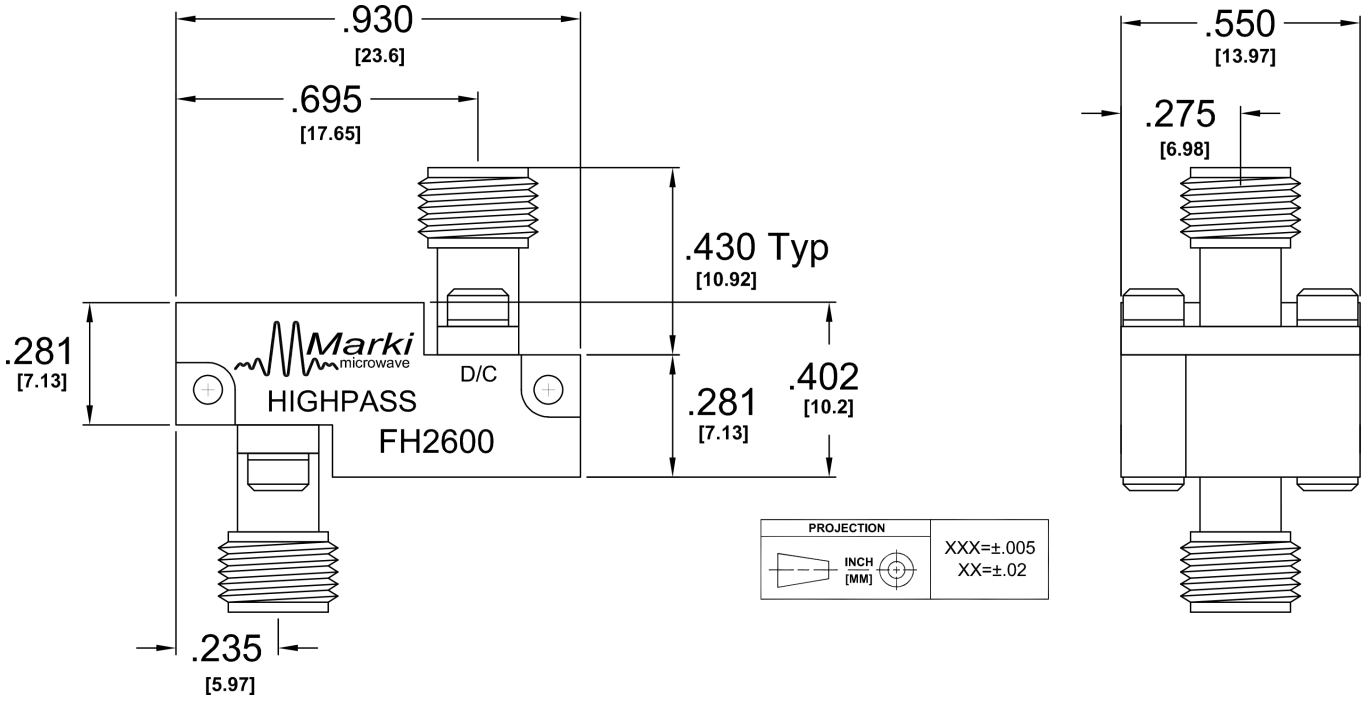
## Mechanical Data

### Outline Drawing



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