

Highpass Waveguide Filter With WR-28 Interface Operating from 30 GHz to 40 GHz

TECHNICAL DATA SHEET

PE-W28F012

Features

- Passband of 10 GHz
- 30 GHz to 40 GHz Passband
- WR-28 UG Cover Flanges
- Min rejection 50 dB at 22 GHz
- Maximum Insertion Loss of 0.5 dB
- Max Power (CW) 50 Watts

Applications

- Radar Systems
- Test and Measurement
- Satellite Communications
- Instrumentation
- Automotive Radar Systems

Description

The PE-W28F012 is a WR-28 highpass filter with UG Cover Flanges. The pass band is 10 GHz, or 30 to 40 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at 22 GHz, or about 8000 MHz from the band edge. It has a maximum insertion loss of 0.5 dB.

Configuration

High Passband
Flange 1
Flange 2

High Pass
WR-28
WR-28

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
High Passband Frequency Range	30	-	40	GHz
Insertion Loss			0.5	dB
High Passband VSWR			1.3:1	
Input Power			50	Watts
Peak Power			2	kWatts
Lowband Rejection at 22 GHz	50			dB

Mechanical Specifications

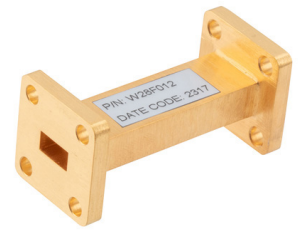
Size

Length	1.57 in [39.88 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.7 lbs [317.51 g]

Flange 1

Waveguide Size	WR-28
Flange Material and Plating	Copper, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Highpass Waveguide Filter With WR-28 Interface Operating from 30 GHz to 40 GHz PE-W28F012](#)



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Flange 1 Type

UG Cover

Flange 2

Waveguide Size

Flange Material and Plating

Flange 2 Type

WR-28

Copper, Gold

UG Cover

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Highpass Waveguide Filter With WR-28 Interface Operating from 30 GHz to 40 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/wr-28-highpass-waveguide-filter-ug-pass-band-pe-w28f012-p.aspx>

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PE-W28F012 CAD Drawing

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