



MICROWAVE FILTER COMPANY, INC.



969 Horsham Road

Horsham, Pennsylvania 19044 USA

TVRO Interference Filters

Horsham, Pennsylvania 19044 USA

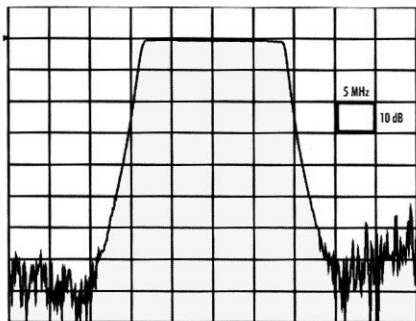
TVRO Interference Filters - 7893D Series



7893D mounted between antenna feed & LNA (both Vertical & Horizontal Polarization)

Features

- Economical Price
- Quick Delivery
- Less than 6 inches Long
- Low Differential Group Delay
- Low Insertion Loss
- Other Frequency Bands Available Upon Request (Including International)
- Highly Selective



Typical Response Curve of 7893D

7893D Series

The Series 7893D C-band bandpass filter is installed between a TVRO feedhorn and the LNA or LNB to suppress strong out-of-band interference caused by marine or airport radar systems. Coastal and marine navigational radar frequencies (2.9-3.65 GHz) are just below the TVRO band and frequently wipe-out transponders 1-5 in TVRO's installed near harbors. The airport altimeter band (4.25-4.40 GHz) will affect channels 22-24 at TVRO sites near airports. The model 7893D interference filter operates at RF before down conversion. This prevents the generation of undesirable mixer products and receiver "desensitization" due to strong out-of-band signals.



7893D Suppresses Radar Interference

Models are available for the following frequency bands:

- 11383 (3.6 - 4.2 GHz)
- 7893-3400/3700
- 7893-3400/4200
- 7893-3600/4100
- 7893-3740/4160

Specifications

Passband:	.....	3.7-4.2 GHz
Insertion Loss:	.....	.04 dB typ at FC
		0.5 dB roll off at band edge
VSWR:	.....	1.92:1 typ
Group Delay:	.....	Less than 8 ns typ
Rejection:		
25 dB min	.....	3.65/4.25 GHz
50 dB min	.....	3.55/4.35 GHz
60 dB min	.....	3.50/4.40 GHz

Mechanical Specifications

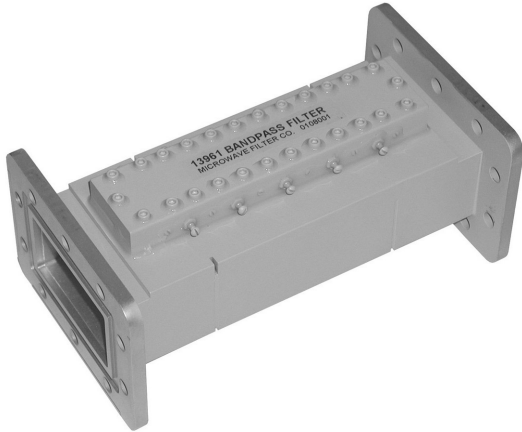
Dimension:	.....	.5 3/4"L x 2 3/4"H x 3 7/8"D
Weight	.....	.2.60 lbs
Flanges*:	.....	CPR-229G, CPR-229F

*Half gasket is supplied with each model

TVRO Interference Filters

TVRO Interference Filters - 13961 Series

For Multifeed Applications



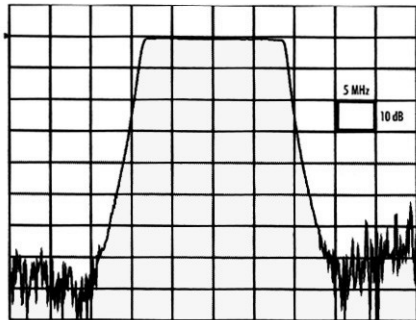
13961 Interference Filter

Features

- Quick Delivery
- Lightweight, Low Profile
- Ideal for Digital Applications (Low Differential Group Delay)
- Low Insertion Loss
- High Interference Rejection
- Other Frequency Bands Available Upon Request (Including International)

13961 Series

The Series 13961 waveguide bandpass filter is specifically designed for use in multifeed antenna applications. It virtually eliminates interference caused by navigational communications (radar) of commercial and military aircraft, as well as coastal and marine vessels operation at frequencies above and below the C-band. The unit is installed between the LNA or LNB and the feedhorn. This lightweight, low profile filter is ideal for multifeed applications which require side-by-side placement of filters (adequate radome clearance is required). Since the unit does the filtering at the C-band frequencies, LNA and LNB overload is prevented and overall picture quality is improved.



Typical Response Curve of 13961

Specifications

Passband:	. . . . .	.3.7-4.2 GHz
Insertion Loss:	. . . . .	.0.5 dB typ at center freq 0.75 dB roll-off at band edge
VSWR:	. . . . .	.1.92:1 typ
Group Delay:	. . . . .	.Less than 8 ns typ
Rejection:		
25 dB typ	. . . . .	.3.65/4.25 GHz
50 dB min	. . . . .	.3.55/4.35 GHz
60 dB min	. . . . .	.3.50/4.40 GHz

Mechanical Specifications

Dimension:	. . . . .	.5 3/4"L x 2 3/4"H x 3 7/8"D
Weight	. . . . .	.1.3 lbs
Flanges*:CPR-229G, CPR-229F

*Half gasket is supplied with each model

TVRO Interference Filters

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Specifications Subject To Change Without Notice.