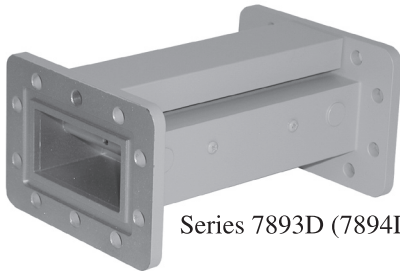


TVRO Interference Filters

(Compatible With Digital LNB's)

Eliminate Out-of-Band Interference at your C-Band Receive Antenna



Series 7893D (7894D)

- **Low Insertion loss**
- **Low Group Delay Variation - Typically ≤ 8 ns** (Ideal for Digital Applications)
- **Economical Price**
- **Quick Delivery** (Stock to 1 Week)
- **Less Than 6 inches Long** (Fits Under Standard Weather Housing)
- **Available for all International bands.**
- **Also rejects transmit band (5.8 - 6.5 GHz) - eliminating the need for a separate transmit reject filter**

With low insertion loss and minimal group delay variation, the series 7893D (7894D) is ideal for digital applications.

Specifications:

Passband.....	3.7-4.2 GHz
Insertion Loss.....	0.4 dB Typ at Fo 0.5 dB roll off at band edge
VSWR.....	1.5:1 Typ (7893D)
Return Loss.....	>14dB Typ (7893D)
VSWR.....	1.33:1 Max (7894D)
Return Loss.....	17dB Min (7894D)
Group Delay Variation.....	Less than 8 ns Typ
Rejection:	
25 dB Min.....	3.65/4.25 GHz
60 dB Min.....	3.55/4.35 GHz
70 dB Min.....	3.50/4.40 GHz
Transmit Band Rejection	
70 dB Typ.....	5.80-6.50 GHz

Mechanical Specifications:

Weight	2.60 lbs
Dimensions	5 3/4" L x 2 3/4" H x 3 7/8" D
Flanges	CPR-229G, CPR-229F
* Half gasket is supplied with each model	

**Models are available for the following frequency bands:
(Inquire for availability)**

3400/3700
3400/4200
3600/4100
3600/4200
3740/4160

The Series 7893D (7894D) waveguide 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 series 7893D (7894D) interference filter operates at RF, before block down conversion. This prevents the generation of undesirable mixer products and receiver "desensitization" due to strong out of band signals.

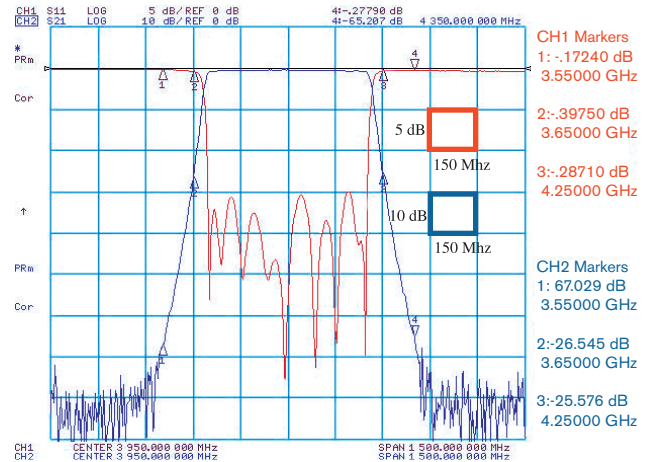


**MICROWAVE
FILTER
COMPANY**

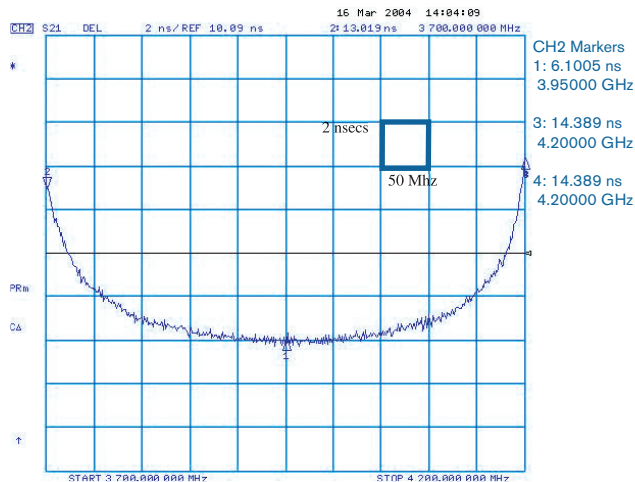
**6743 KINNE STREET
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800-448-1666 • 315-438-4700
E-Mail mfcsales@microwavefilter.com
www.microwavefilter.com**



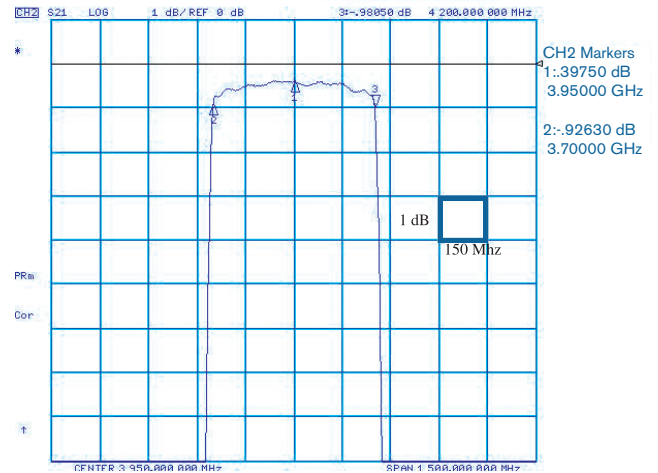
Photo of 7893D (7894D) mounted between antenna feed and LNA's (both Vertical and Horizontal Polarization.)



Typical Rejection 7893D (7894D)
 Typical Return Loss 7893D



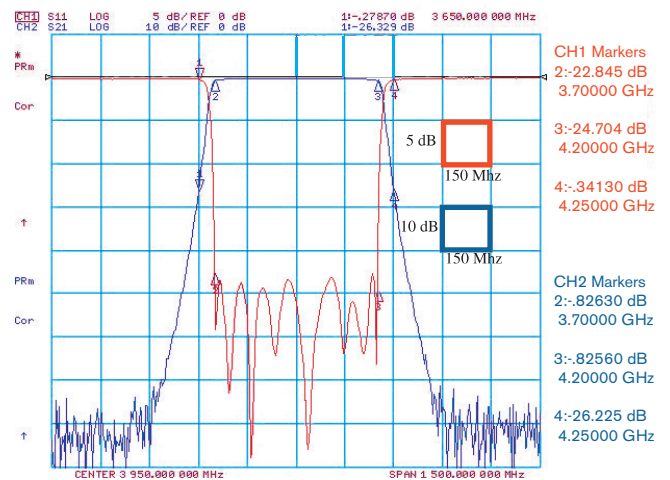
Typical Group Delay 7893D (7894D)



Typical Passband Loss 7893D (7894D)

The **7894D** GUARANTEES IMPROVED RETURN LOSS (17dB min), WHICH WILL PROVIDE ADDITIONAL SIGNAL TO THE RECEIVER

Inquire for price and availability



Return Loss 7894D



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