

# 7893D

## TVRO INTERFACE FILTER



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.

### SPECIFICATIONS

Passband: .....3.7-4.2 GHz  
 Insertion Loss: .....0.4 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

Dimensions: .....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

**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

Models are available for the following frequency bands:

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

Note: With low insertion loss and minimal group delay variation,

the 7893D is ideal for digital applications.



MODEL



# R3272

## CHANNEL DELETION LINE (UP TO 1 GHz)



CHANNEL DELETION LINE (UP TO 1 GHz)  
THE 3272 SERIES DELETES THE ENTIRE CHANNEL AND  
ALLOWS REINSERTION OF NEW INFORMATION WITHOUT  
INTERFERENCE.

### SPECIFICATIONS

#### Bandwidth

- Channels 2 to A-4 .....750 MHz
- Channels A-3 to 49 .....860 MHz
- Channels 50 and up .....1 GHz
- Channel Rejection.....> 55 dB
- Return Loss.....> 16 dB
- Impedance.....75 Ohms
- Temperature Range .....+5° C to +35° C
- Passband Insertion Loss.....<1.5 dB
- Typical.....<1 dB

#### Channels 2 to 78 (Insertion Loss)

- Lower Adjacent Audio .....3 dB
- Upper Adjacent Video .....3 dB

MODEL

# 14584

## ADJACENT CHANNEL CATV BANDPASS FILTER



The 14584 is part of the premium grade family of filters and networks offered by the company. This unit passes single channel signals while providing rejection to adjacent channels. It is used in CATV, LAN, MDU, MSO and network applications. The 14584 offers high adjacent channel selectivity while maintaining a low differential group delay specification, making it ideal for digital applications. In addition, the unit has excellent return loss characteristics over the full video to audio range. Bandwidths of 4, 5 or 6 MHz are available for any CATV channel 37 through 125, with UHF channels available upon request. The unit is equipped with type F connectors, but can be configured to other specific requirements.

### SPECIFICATIONS

- Insertion Loss .....5.0dB (max)
- Adjacent Carrier Rejection.....20 dB (min)
- Group Delay .....Less than 120 ns

