



Microwave Filter Company, Inc.

## 7893D | 7894D | 11383 C-Band Elimination Filters

## Eliminate WiMAX, RADAR and Other Sources of Interference at your C-Band Receive Antenna



- Low Insertion Loss Typically less than 1 dB
- <u>Also Rejects Transmit Band (5800-6725 MHz) > 70 dB Typ</u> Eliminating the need for a separate TRF
- Low Group Delay Variation 8 nS Max
- Compact Size For easy installation on single or multi-feed LNBs
- Superior VSWR Performance 1.5:1 Max
- Quick Turnaround Most orders ship within (1-5) days ARO

Historically, the solution for eliminating **out-of-band** interference (e.g. - RADAR) has been to install a highly-selective bandpass filter. Specifically, a filter with a passband corresponding to that region's standard footprint (i.e. - **3700-4200** MHz, **3400-4200** MHz, etc.).

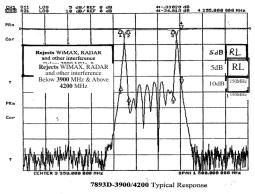
However, not long ago, WiMAX began operating in the (3400-3800) MHz frequency band in many regions around the world. This **common band** operation causes **in-band** interference at C-band receive sites that cannot be eliminated with "standard footprint" BPFs.

Example: WiMAX - operating at 3700 MHz - causes interference at a C-band receive site (where the footprint is 3700-4200 MHz). A standard footprint BPF will pass <u>all</u> frequencies from 3700 4200 MHz (i.e. - including the interfering WiMAX signal).

Solution: Install an MFC model 7893D-3780/4200 bandpass filter that will provide 30 dB rejection at 3700 MHz and will pass all remaining C-band from (3780-4200) MHz.

Following are just some of our many filtering solutions for eliminating WiMAX,				
RADAR and other C-band interference:				

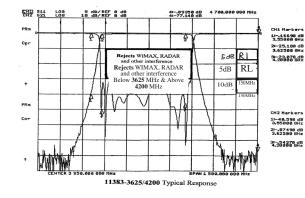
Model Number	Passband (MHz)	LOWER Rejection (Min./Typ. dB)	UPPER Rejection (Min./Typ. d <sup>D</sup> )
7893D-3400/4200	3400-4200	25/30 dB @ 3300 MHz 25/30	dB @ 4300 MHz
11383-3550/4150	3550-4150	25/ dB @ 3500 MHz	25/ dB @ 4200 MHz
11383	3600-4200	/25 dB @ 3550 MHz /45 dB @ 3500 MHz	/25 dB @ 4250 MHz 70/ dB @ 4400 MHz
11383-3625/4200	3625-4200	10/13 dB @ 3600 MHz 25/ dB @ 3575 MHz /40 dB @ 3550 MHz	/20 dB @ 4285 MHz -/40dB@4325MHz 60/ dB @ 4400 MHz
7893D-3665/4165	3665-4165	25/30 dB @ 3615 MHz 60/65 dB @ 3515 MHz 70/80 dB @ 3465 MHz	25/30 dB @ 4215 MHz 60/70 dB @ 4315 MHz 70/80 dB @ 4365 MHz
7893D	3700-4200	25/ dB @ 3650 MHz 60/70 dB @ 3550 MHz 70/80 dB @ 3500 MHz	25/ dB @ 4250 MHz 60/70 dB @ 4350 MHz 70/80 dB @ 4400 MHz
7893D-3740/4160	3740-4160	/25 dB @ 3690 MHz /40 dB @ 3650 MHz	/25 dB @ 4210 MHz /40 dB @ 4250 MHz
7893D-3780/4200	3780-4200	10/ dB @ 3725 MHz 30/ dB @ 3700 MHz 50/ dB @ 3650 MHz	30/ dB @ 4325 MHz 60/ dB @ 4400 MHz
7893D-3900/4200	3900-4200	30/35 dB @ 3845 MHz	30/35 dB @ 4255 MHz



31-21-319 dB 4.28888 8Hz CH2 Markers 11-36-40-dB 3.84580 8Hz 21-93859 dB 3.99000 GHz 31-983889,18

11-.33170 dE

2:-21.798 di



Specifications Subject To Change Without Notice

Rev 03-20

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