

# CARS Band Filters 12.7-13.2 GHz

## 3740 Bandpass Filters



### 3740 Series

The 3740 series contains a filter for each channel in 7 groups of CARS band channel allocations, as well as, wideband models for portions of the entire CARS band. Either waveguide flange (W3740) or coaxial (SMA) (C3740) input-output connectors are available. Filters with special bandwidths or selectivity are available on special order. WR75 copper waveguide is standard construction. For a greater degree of temperature stability, silver plated Invar construction is also available upon request.

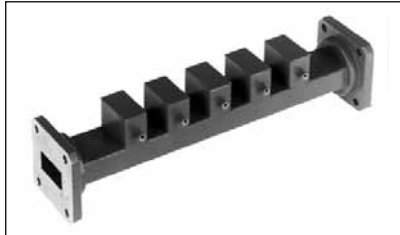
### Standard Channel Bandpass Filters

Chnl Group	Model	Insertion Loss at Fo (Max)	1 dB BW (MHz)	30 dB (Min) Rejection	Length (Approx) SMA	Length (Approx) Flanges
FM A	3740A	4.0 dB	27 Min.	±40 MHz	6.5"	5.0"
FM B	3740B	4.0 dB	27 Min.	±40 MHz	6.5"	5.0"
C	3740C	6.0 dB	8 Min.	±25 MHz	5.0"	4.0"
D	3740D	6.0 dB	8 Min.	±25 MHz	5.0"	4.0"
E	3740E	6.0 dB	8 Min.	±25 MHz	5.0"	4.0"
F	3740F	6.0 dB	8 Min.	±25 MHz	5.0"	4.0"
FM K	3740K	5.0 dB	13 Min.	±25 MHz	6.5"	5.5"



Typical Frequency Response of 3740

## 4535 Notch Filter



### Ordering Information:

X 3740-(Fo)(BW)(T)

X - designates connector type. C for coaxial SMA female connectors or W for waveguide flange.

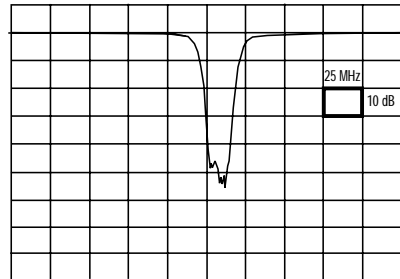
(Fo) - designates center frequency

(BW) - designates 3 dB bandwidth

(T) - designates temperature compensated unit

### 4535 Series

These notch filters are supplied to your specified 3 dB bandwidth ( $BW_3$ ) and notch loss ( $A_o$ ) and are available with waveguide cover flanges (W4535) or coaxial connectors (C4535). They are available in one, three or five section designs to provide a wide array of bandwidth/notch loss combinations. For a greater degree of temperature stability, silver plated Invar construction is also available upon request.



Typical Frequency Response of 4535

### Mechanical Specifications:

Body Construction: WR75 Waveguide

Input/Output: Cover flanges or SMA female coaxial connectors.

### Ordering Information:

X 4535-(Fo)(BW)(T)

X - designates connector type. C for coaxial SMA female connectors or W for flange.

(Fo) - designates center frequency

(BW) - designates 3 dB bandwidth

(T) - designates temperature compensated unit

M I C R O W A V E F I L T E R C O M P A N Y , I N C .

E-mail: [mfcsales@microwavefilter.com](mailto:mfcsales@microwavefilter.com) • Toll Free Phone: 1-888-206-6610 • Fax: 315-463-1467