

## Series UV22IN, Interdigital Band-Pass Filters, 1 to 18 GHz, 2 to 50% Bandwidth

- Equal Ripple Chebyshev Design
- Optimal Trade-Off between Low Insertion Loss and Sharp Stop-Band Rejection



### Specifications

Parameter	Specification
Center Frequency Range (F <sub>0</sub> )	1 to 18 GHz
3 dB Relative Bandwidth	2 to 50%
Number of Sections	3 to 16
Impedance	50 ohms
VSWR at F <sub>0</sub>	1.5:1 typical
Insertion Loss	Related to bandwidth and number of sections (see Figure 20)
Stopband Rejection	Related to bandwidth and number of sections (see rejection curves, Figures 21 to 25)
Average Input Power	2 to 100 W
Connectors	N, BNC, TNC, SMA
Size	Related to bandwidth and number of sections (details upon request)
Temperature Range	0° to +50° (standard)

### Options

- Special connectors and packaging
- Design specifications and development conforming to stringent military requirements.

### How to order

#### Standard Models

Please specify your order by stating the model number according to the specifications table and the example below:

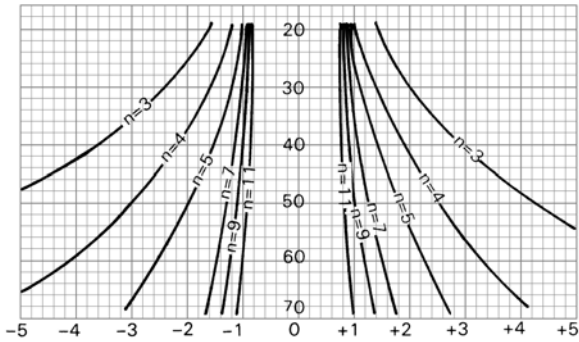
$$\frac{\text{UV22 IN}}{1} \frac{7}{2} \frac{8000}{3} \frac{400}{4} \frac{\text{SF}}{5} \frac{\text{SF}}{6}$$

#### Legend:

- 1: Basic model number (UV 22IN)
- 2: Number of sections
- 3: Center frequency (MHz)
- 4: Relative 1 dB bandwidth (MHz)
- 5: Input connector code
- 6: Output connector code

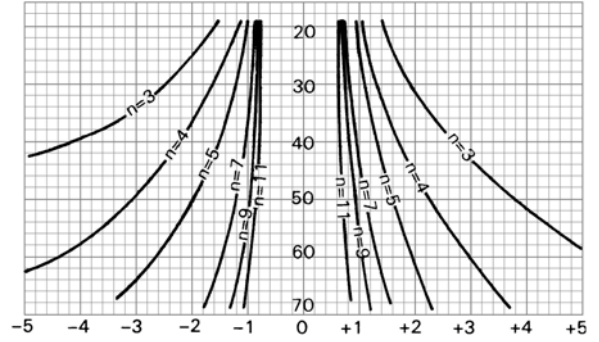
Connector	Code	
	Male	Female
SMA	SM	SF
BNC	BM	BF
TNC	TM	TF
N	NM	NF





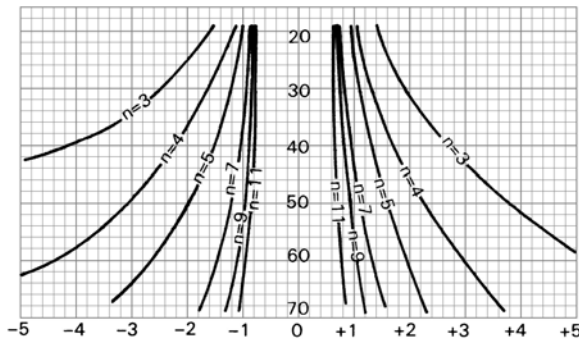
No. of 1 dB Bandwidths

**Figure 21. Rejection Curves (dBs),  
1dB BW = 5%**



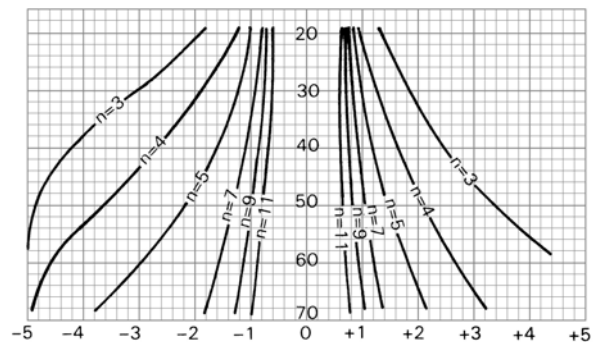
No. of 1 dB Bandwidth

**Figure 22. Rejection Curves (dBs),  
1 dB BW = 10%**



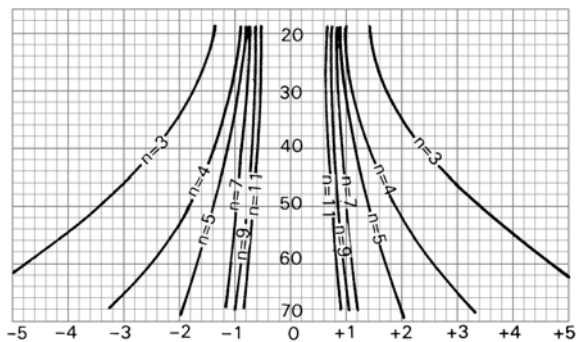
No. of 1 dB Bandwidths

**Figure 23. Rejection Curves (dBs),  
1 dB BW = 20%**



No. of 1 dB Bandwidth

**Figure 24. Rejection Curves (dBs),  
1 dB BW = 40%**



No. of 1 dB Bandwidths

**Figure 25. Rejection Curves, (dBs), 1dB BW = 50%**