



# Double-Ridge Waveguide Band Pass Filter

## Description

We are proud to provide a wide range of Double-Ridge waveguide bandpass filter covering bands from 1 GHz to 40 GHz. Our bandpass filters are featured with partial/full band operation, deep matching and isolation levels, low insertion loss and high-power handling capability.

## Applications

- Antenna Feeding Structure
- Radar systems
- Satellite applications

## Electrical Specifications

- Pressurized and TVAC units are available based on the client requirement.
- Rejection can be 40-50-60 dB based on the client requirement.
- WRD250S/WRD600 are SMC special designed Double-Ridge waveguide structures that cover extremely wide band 3:1.
- WRD600P is an SMC special designed Double-Ridge waveguide structure with exceptional high-power handling capability.
- Filters are available with coaxial and/or waveguide interfaces.

## Mechanical Specifications

**Material:** Aluminum 6061 / Copper / Brass  
**Finish:** Chromate/Plated  
**Paint:** As per request

### Contact Info :

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## Electrical Specifications

Model Number	Waveguide Size	Frequency Range (GHz)	IL	RL	Dimension (L) inch
<b>SMC-031D180</b>	WRD180	18.00-40.00	0.8	16	1.5
<b>SMC-031D200</b>	WRD200	2.00-4.80	0.3	20	13
<b>SMC-031D250</b>	WRD250	2.60-7.80	0.4	20	8
<b>SMC-031D250S*</b>	WRD250S	2.50-7.50	0.4	20	8
<b>SMC-031D350</b>	WRD350	3.50-8.20	0.4	18	6
<b>SMC-031D475</b>	WRD475	4.75-11.00	0.4	18	5
<b>SMC-031D500</b>	WRD500	5.00-18.00	0.45	18	4
<b>SMC-031D580</b>	WRD580	5.80-16.00	0.45	18	4
<b>SMC-031D600*</b>	WRD600	6.00-18.00	0.5	18	4
<b>SMC-031D600P*</b>	WRD600P	6.00-12.00	0.5	18	4.75
<b>SMC-031D650</b>	WRD650	6.50-18.00	0.5	18	4
<b>SMC-031D750</b>	WRD750	7.50-18.00	0.6	17	4
<b>SMC-031D840</b>	WRD840	0.84-2.00	0.3	20	30