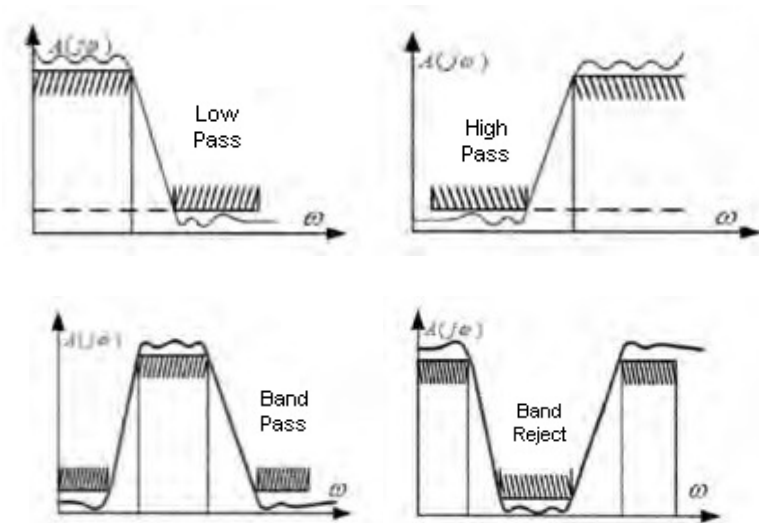


Waveguide Filter

Microwave filters play an important role in microwave circuits. Working attenuation is usually used to describe the amplitude characteristics of the filter, which is divided into: low-pass, high-pass, band-pass and band-reject filters. The amplitude-frequency characteristics of the four basic types of filters are shown below.



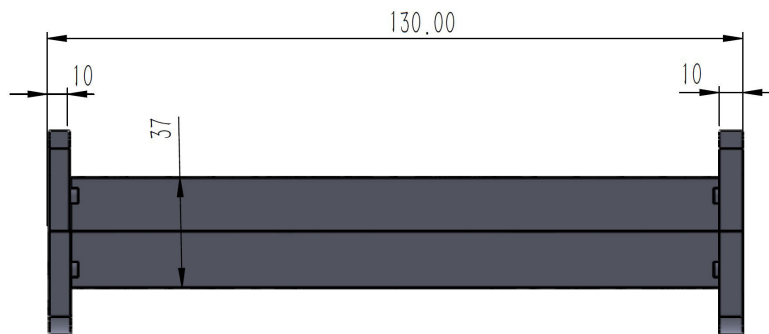
Dolph Microwave provides a series of high-performance standard rectangular waveguide filter products. The product types include bandpass, bandreject, lowpass, highpass, harmonics, cavity filters, etc. The product frequency range covers 3.2-40GHz, and the typical standing wave within 10% of the waveguide bandwidth is less than 1.20.

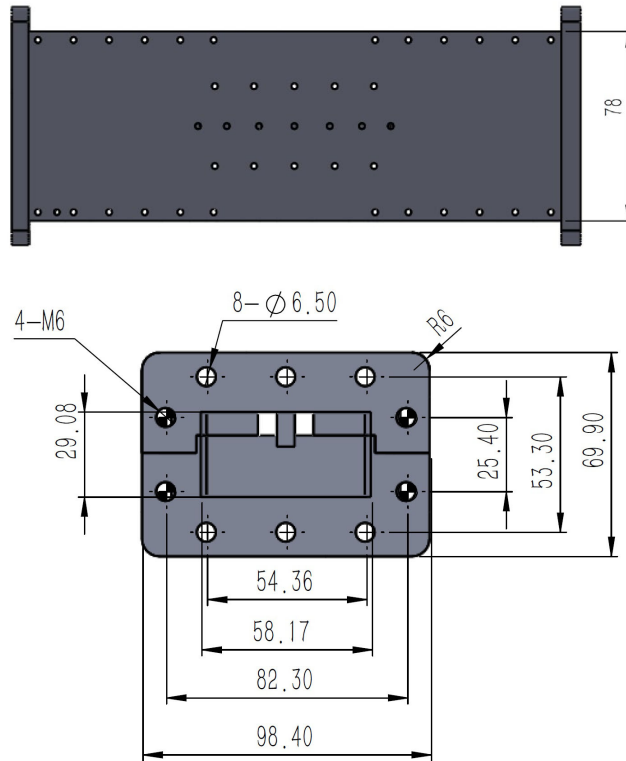


● Technical Specification

WR229 Waveguide Filter	
Electrical Specifications	
Model	DH-40WBPF37004200PMA
Frequency Range	3.7 - 4.2 GHz
Insertion Loss	3.7 -4.2 GHz < 0.5 dB
VSWR	1.37:1
Rejection	≥ 60 dB @ $f \leq 3.5$ - 3.6 GHz ≥ 60 dB @ 3.67 - 3.68 GHz ≥ 1.5 dB @ 3.7 - 4.2 GHz ≥ 30 dB @ 4.23 GHz ≥ 40 dB @ 4.25 GHz
Return Loss	17 dB
Group Delay Variation	Less than 7 ns Typ
Mechanical Specifications	
Waveguide Type	WR229
Flange type	CPR229G (Input)/CPR229F (Output)
Material	Al
Inside finish	Chromate Conversion
Outside finish	Anticorrosion White Paint/UV Resistant Epoxy
Size (L x W x H)	130 mm x 70 mm x 100 mm
Weight	< 500g
Environmental	IP67
Operating Temperature	-40°C to 60°C

● Outline Drawing (Size: mm)





● Typical Performance

