

Waveguide and Coaxial Filters

INTERDIGITAL BANDPASS FILTERS ($\lambda/4$ -lines)

Frequency range: 0.3-18 GHz

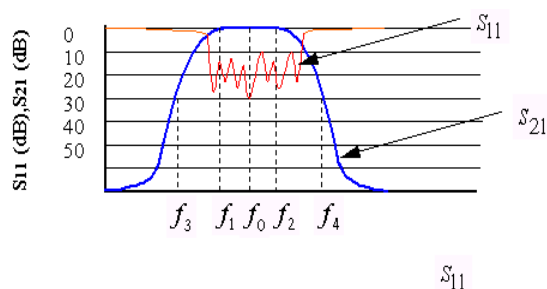
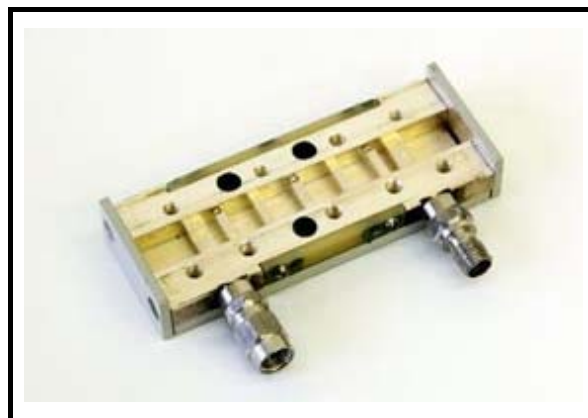
Loss: 0.8-1.5 dB

$$\frac{f_2 - f_1}{f_0} = 0.011 - 0.5$$

$$\frac{f_4 - f_3}{f_0} = 0.031 - 0.8$$

f_1, f_2 - bandpass limit frequencies

f_3, f_4 - attenuation band limit frequencies



WAVEGUIDE BANDPASS FILTERS

Frequency range: 20-140 GHz

Low loss: 0.5-1.2 dB

$$\frac{f_2 - f_1}{f_0} = 0.01 - 0.3$$

$$\frac{f_6 - f_4}{f_5} = 0.13 \div 0.35$$

$$\frac{f_3}{f_1} = 0.96 \div 0.992$$

$$\frac{f_2}{f_4} = 0.94 \div 0.98$$

f_1, f_2 - bandpass limit frequencies

f_3, f_4, f_6 - attenuation band limit frequencies

