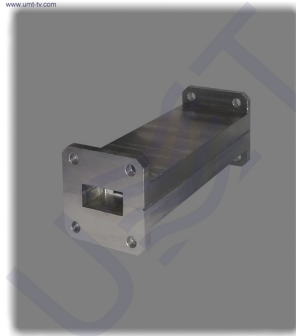# KU-BAND HIGH-PASS FILTER

This waveguide high-pass filter is used in Ku band for transmitting all frequencies above a cutoff frequency, substantially attenuating frequencies below

Ku-band high-pass filter:

- **removes** the short-term signal fluctuations
- **decreases** out of range noise
- **selects** a narrow range of frequencies from the whole range of ambient radio waves

Parameter	Value
Filter type	waveguide high-pass
Waveguide type	WR75
Waveguide flange types	UBR120 and PBR120
Cutoff frequency, GHz	12.75
Filter characteristic type	Chebyshev/Batervord
Amplitude-frequency characteristic unevenness of filter in bandwidth, dB,max	+/- 0.5
Real loss in bandwidth, dB,max	1
Rejection from transmission band edge of 100 MHz, dB, not less	45
VSWR, max	1.5
Case material	Aluminium alloy