

Waveguide Directional Couplers

Type	Frequency (GHz)	Waveguide	Flanges	A (mm) length	B (mm)	C (mm) height	D (mm) width
WDC-12	12.75-13.25	R 120 WR-75	UBR-120 M4x5mm	114.3	19.5	50.8	38.1
WDC-14	14.0-15.5	R 140 WR-62	UBR 140 M4x5mm	88.9	16.8	46.5	33.5
WDC-15	14.0-15.5	R 140 WR-62	UBR 140 M4x5mm	88.9	16.8	46.5	33.5
WDC-17	17.7-19.7	R 220 WR-42	UBR 220 M3x5mm	76.2	11.2	31.2	22.4
WDC-18	17.7-19.7	R 220 WR-42	UBR-220 M3x5mm	76.2	11.2	31.2	22.4
WDC-18E	17.7-19.7	R 220 WR-42	IN port UBR-220 OUT and CPL PBR-220 M3x5mm	76.2	11.2	31.2	22.4
WDC-21	21.2-23.6	R 220 WR-42	UBR 220 M3x5mm	76.2	11.2	30.5	22.4
WDC-22	21.2-23.6	R 220 WR-42	UBR 220 M3x5mm	76.2	11.2	30.5	22.4
WDC-24	24.5-26.0	R 220 WR-42	UBR 220 M3x5mm	76.2	11.2	29.9	22.4
WDC-25	24.5-26.5	R 220 WR-42	UBR 220 M3x5mm	76.2	11.2	29.9	22.4

Technical Specification:

Coupling

WDC-12, -14, -17, -21, -24 10±0.5dB

WDC-15, -18, -18E, -22, -25 3.0±0.5dB

Insertion Loss

WDC-12, -14, -17, -21, -24 1.2dB max.

WDC-15, -18, -18E, -22, -25 3.0±0.5dB

Return Loss

WDC-12, -14, -17, -21, -24 23dB min.

WDC-15, -18, -18E, -22, -25 19dB min.

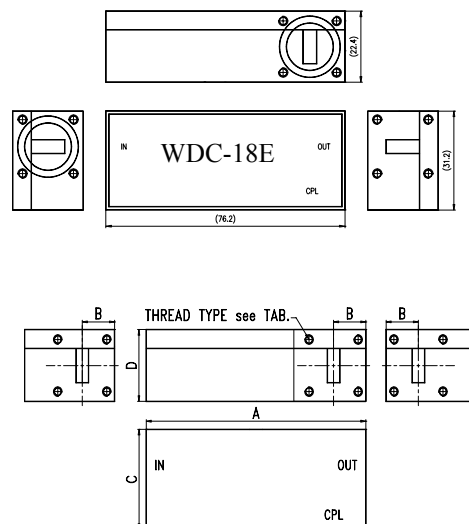
Directivity 20dB min.

Material Aluminum

Plating Chromate yellow

Painting gray alkyd orange peel
(RAL 7001)

Operating Temperature -30 °C +70 °C



Lowpass Filter 8.5 GHz

P/N: LPF 8.5

Technical Specifications:

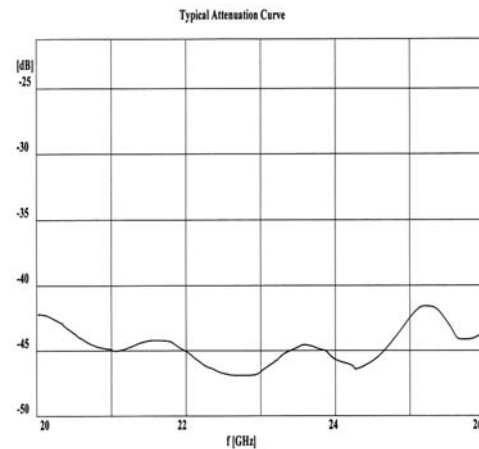
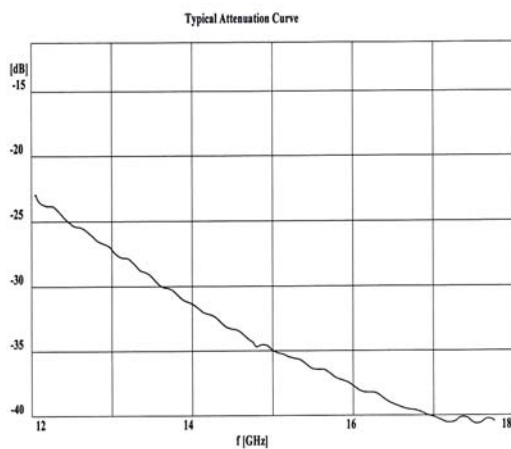
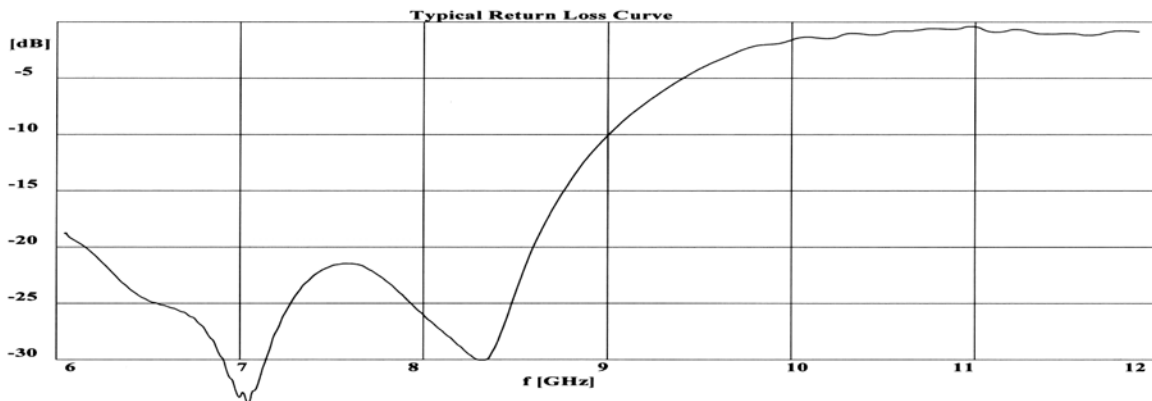
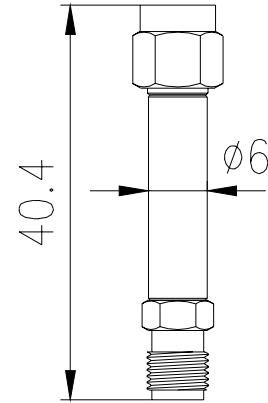
Passband Frequency	7.1 to 8.5 GHz
Passband Insertion Loss	0.2 dB max. (0.1dB typical)
Passband Return Loss	20 dB min.
Rejection 14.2 to 25.5 GHz	30 dB min.

Environmental Specifications:

Temperature	Operating	-30...+80 °C
	Storage	-40...+80 °C

Mechanical Specifications:

Connectors	SMA-F, SMA-M
Overall Length	1.6" max.
Diameter of Body	0.24" max
Engagement Force	0.8 Nm
Disengagement Force	0.8 Nm
Damage Torque	over 2 Nm



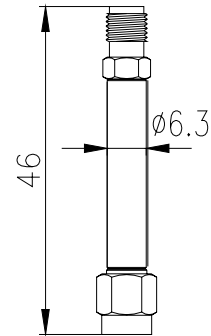
Lowpass Filter 9.5 GHz P/N: LPF 9.5

Technical Specifications:

Passband Frequency	DC to 9.5 GHz
Passband Insertion Loss	0.3 dB max. (up to 8555 MHz)
Passband Flatness	0.2 dB max.
Passband Return Loss	14.0 dB min. (typical: 17 dB)
Rejection at 14 GHz	35 dB min.
Rejection 18-30 GHz	50 dB min.

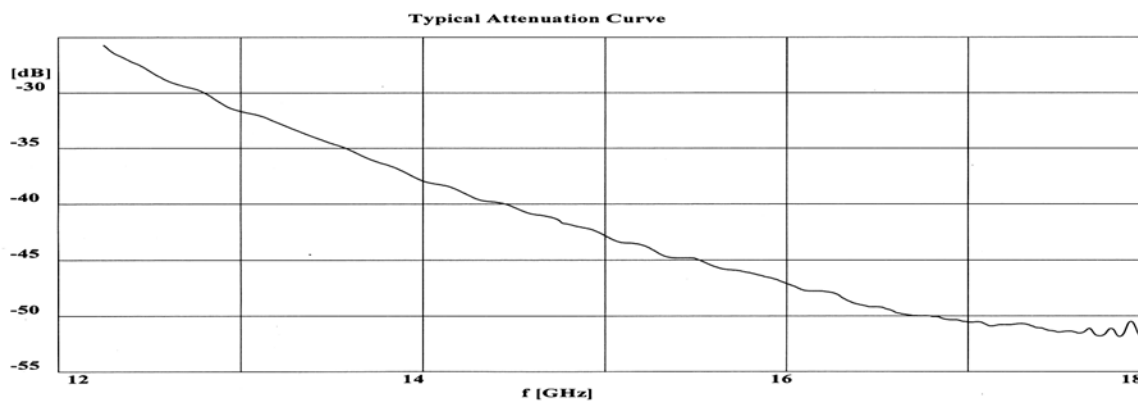
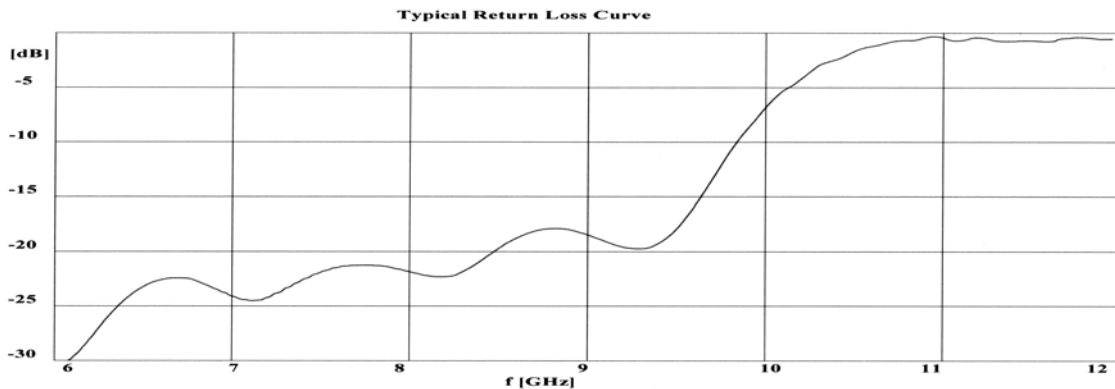
Environmental Specifications:

Temperature Operating	-30...+80 °C
Storage	-40...+80 °C



Mechanical Specifications:

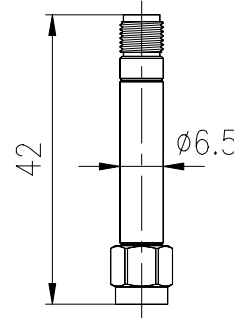
Connectors	SMA-F, SMA-M
Overall Length	1.81"
Diameter of Body	0.25"
Engagement Force	0.25 Nm
Disengagement Force	0.25 Nm
Damage Torque	over 1 Nm



Lowpass Filter 18 GHz P/N: LPF 18S

Technical Specifications:

Passband Frequency	DC to 18.0 GHz
Passband Insertion Loss	0.5 dB max.
Passband Return Loss	13.0 dB min.
Rejection 24-35 GHz	50 dB min.
35-40 GHz	40 dB min.
Power Rating	5 Watts min.



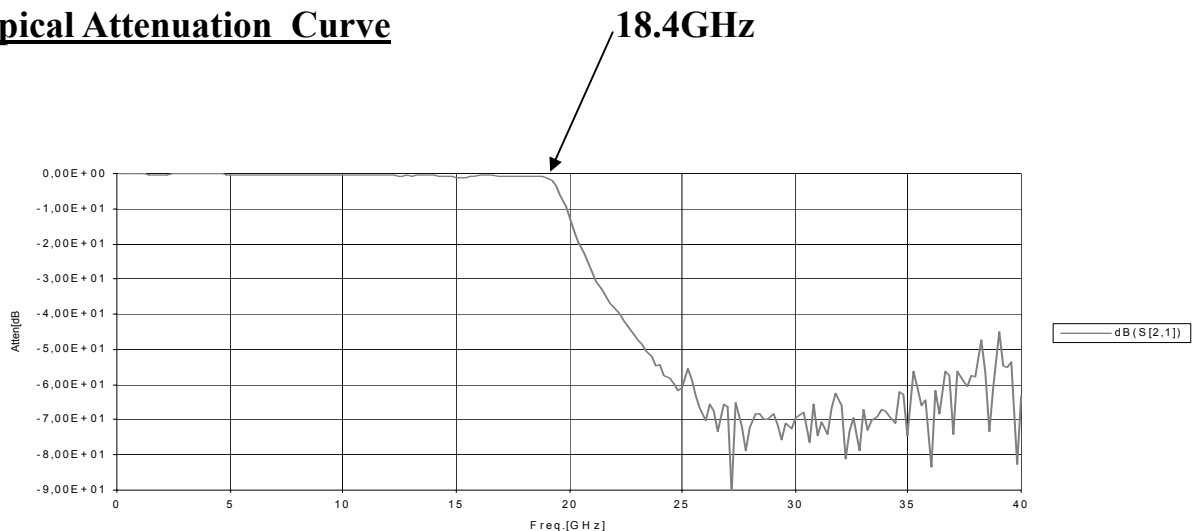
Environmental Specifications:

Temperature Operating	-30 ...+55 °C
Storage	-40 ...+80 °C

Mechanical Specifications:

Connectors	SMA-F, SMA-M
Overall Length	1.61"
Diameter of Body	0.25"

Typical Attenuation Curve



Typical Return Loss Curve

