



RFS Waveguide UHF filters are now 4th generation products designed for global combining and filtering applications associated with DTV and analog television transmissions.

FEATURES / BENEFITS

- Designed for vertical mounting to minimize footprint
- Adjustable 6 to 8MHz bandwidth for global applications
- Designed for high peak voltage DTV signals
- Advanced design and manufacturing techniques for optimum performance
- Customised out-of-band emissions filtering
- No field tuning required.



10PXXW

6PXWE

PXW series Waveguide filters

Technical features

GENERAL SPECIFICATIONS

Product Line		Filters
Product Type		Band IV/V (UHF) TV Waveguide Filter
Model		6PXWE
Filter type		6 Pole

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	470 - 860	
Out-of-Band Emissions Mask		ETSI non-critical	ATSC
Channel Bandwidths	MHz	8	6
Input Power Rating	kW	22 @ 474 MHz 10 @ 858 MHz	22 @ 473 MHz 10 @ 806 MHz
Insertion Loss at fc	dB	< 0.18 @ 474 MHz < 0.27 @ 858 MHz	<0.2 @ 473 MHz <0.29 @ 806 MHz
VSWR average across carriers		< 1.16	< 1.1
Group Delay Variation	ns	< 150 @ fc ± 2.69 MHz	< 150 @ fc ± 2.69 MHz

External Document Links

Notes

- **Note 1** The RFS R series provides a "mix and match" interface to 50 Ohm EIA/IEC standard connectors
- **Note 2** Operating room temperature 0 to 45 degrees C
- **Note 3** In the model name, "X" denotes single cross coupling and "XXX" denotes triple cross coupling.