

Band IV/V (UHF) PeakPower+™ bandpass filter.

Product Description

The RFS 6PPXX80E filter is designed for global filtering applications associated with DTV television transmission. The filter is a 6-pole filter incorporating two cross couplings to meet ETSI critical and non-critical mask filtering requirements.

Features

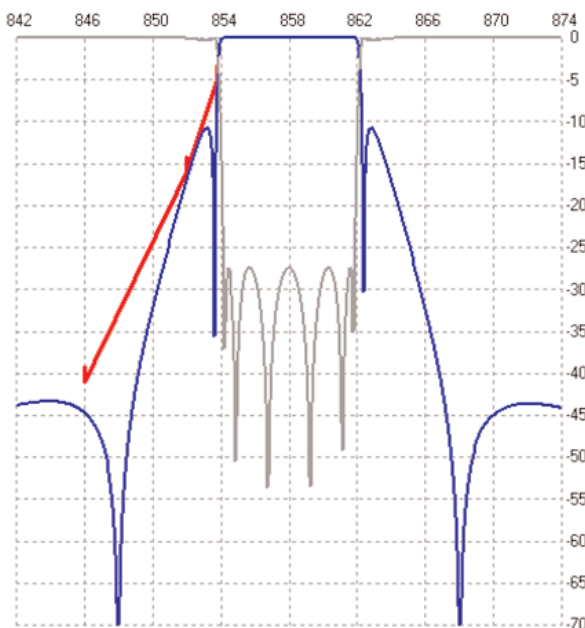
- Very compact for easy integration into equipment.
- Very low insertion loss for filter size, (lowest IL for this size).
- Highest power rating for size/class of filter, tested for 24kW peak power (@10dB PAR, B=6MHz, fc=803MHz).
- Tunable over full UHF band (470 – 862 MHz)
- Adjustable bandwidth, available for 6, 7 & 8 MHz channels for global applications.
- External, non-invasive coupling adjustment.
- Tunable for both ETSI critical and non-critical applications.
- 0 – 45 degree room temperature operation.



Specifications

Model	6PPXX80E	6PPXX80E
Filter Type	6-pole	6-pole
Out-Of-Band Emissions Mask	DVB-T ETSI non-critical	DVB-T ETSI critical
Channel Bandwidth , MHz	8	8
Input Power Rating 474MHz, kW	1.7	1.35
Input Power Rating 858MHz, kW	1.35	1.1
Insertion Loss at fc 474MHz, dB	< 0.32	< 0.4
Insertion Loss at fc 858MHz, dB	< 0.4	< 0.5
Attenuation, dB	< 1.4 ± 3.8MHz > 5 ± 4.2MHz > 16 ± 6MHz > 41 ± 12MHz	< 2.1 ± 3.8MHz > 13 ± 4.2MHz > 24 ± 6MHz > 42 ± 12MHz
VSWR averaged across carriers	< 1.1	<1.2
Group Delay variation, nS	< 270 ± 3.8MHz	< 450 ± 3.8MHz
Weight, kg (lbs)	10 (21)	-
Width, depth, height cm (in)	16.5, 34.9, 36 (6.5, 13.7, 7.14)	-

ETSI non-critical mask



ETSI critical mask

