



The RFS 8PPXX80E is designed for global filtering applications associated with DTV television transmission. It is an 8-pole filter incorporating two cross couplings to meet all mask requirements.

FEATURES / BENEFITS

- Very compact for easy integration into equipment.
- Very low insertion loss (lowest for this size).
- Highest power rating for size/class.
- 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 ETSI and ISDB-T critical or ATSC applications.
- -5 to 55 degree ambient temperature operation



8PPXX80E Filter

Technical features

GENERAL SPECIFICATIONS

Product Line		Filters
Product Type		Band IV/V (UHF) TV Bandpass Filter
Model		8PPXX80E
Filter type		8 Pole with 2 cross couplings - 80 mm ground plane spacing
Input / Output Connector		7-16 DIN female (Standard), 7/8" EIA Flange Female & 1-5/8" EIA Unflanged Female (Optional)

MECHANICAL SPECIFICATIONS

Dimension-WxDxH	mm (in)	172 x 441 x 326 (6.8 x 17.4 x 12.8)
Color		Black
Weight	kg (lb)	12.7 (28)

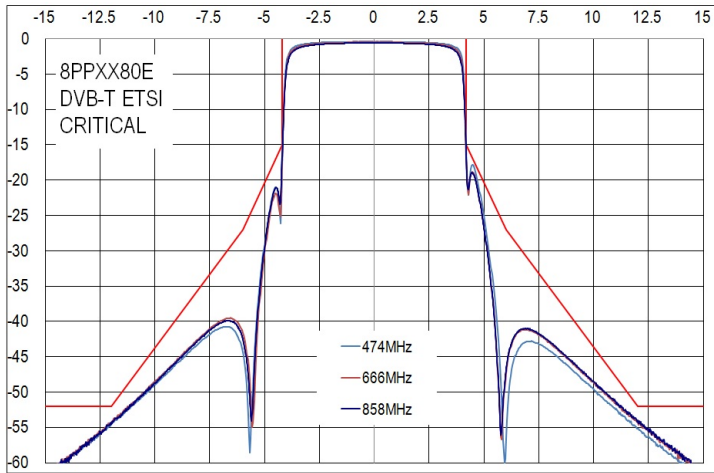
COOLING

Cooling		Natural air
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SPECIFICATIONS

Out-of-Band Emissions Mask		DVB-T ETSI critical	DVB-T ETSI critical	ISDB-T critical	ATSC Sharp tuned
Channel Bandwidths	MHz	8	6	6	6
Input Power Rating	kW	0.98 @ 474 MHz 0.73 @ 858 MHz	0.78 @ 473 MHz 0.62 @ 803 MHz	0.78 @ 473 MHz 0.62 @ 803 MHz	0.73 @ 473 MHz 0.62 @ 803 MHz
Insertion Loss at fc	dB	<0.59 @ 474 MHz <0.71 @ 858 MHz	<0.77 @ 473 MHz <0.93 @ 803 MHz	<0.79 @ 473 MHz <0.98 @ 803 MHz	<0.68 @ 473 MHz <0.87 @ 803 MHz
Attenuation	dB	<2.79 at Fc ± 3.8 MHz >15.0 at Fc ± 4.2 MHz >27.0 at Fc ± 6.0 MHz >52.0 at Fc ± 12.0 MHz	<3.69 at Fc ± 2.85 MHz >15.0 at Fc ± 3.15 MHz >27.0 at Fc ± 4.5 MHz >52.0 at Fc ± 9.0 MHz	<3.29 at Fc ± 2.79 MHz >14.0 at Fc ± 3.15 MHz >31.0 at Fc ± 4.5 MHz >61.0 at Fc ± 9.0 MHz	<1.59 at Fc ± 2.69 MHz >7.0 at Fc ± 3.25 MHz >7.0 at Fc ± 3.5 MHz >40.0 at Fc ± 6.0 MHz >65.0 at Fc ± 9.0 MHz
VSWR average across carriers		<1.1	<1.11	<1.11	<1.09
Return Loss Average Across Carriers	dB	26.4	25.7	25.7	27.3
Group Delay Variation	ns	<590 at Fc ±3.8 MHz	<690 at Fc ±2.85 MHz	<590 at Fc ±2.79 MHz	<290 at Fc ±2.69 MHz
Maximum Operating Temperature	°C (°F)	80 (176)			
Ambient Temperature Range	°C (°F)	-5 to 55 (23 to 131)			
Maximum Temperature Rise	°C (°F)	40 (104)			
Freq Drift - Tx Operation	kHz/°C(°F)	<2 (1.2)			
Freq Drift - Ambient Temperature	kHz/°C(°F)	<2 (1.2)			

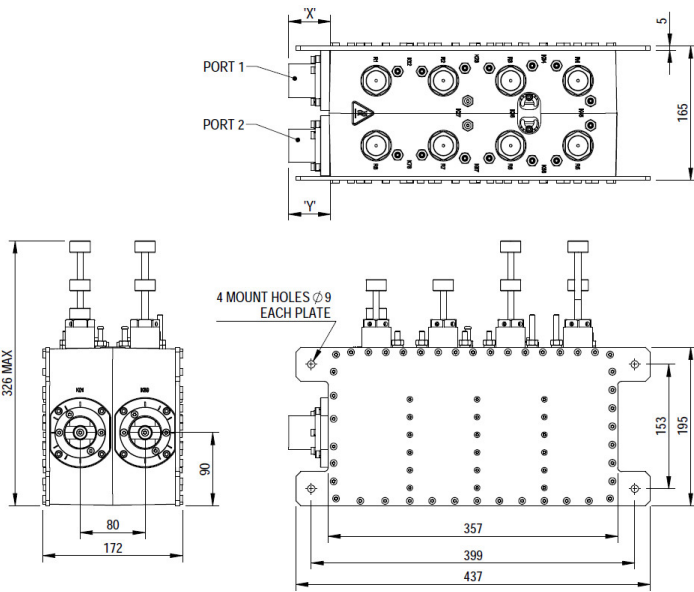


8PPXX80E response



8PPXX80E Series

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



8PPXX80E Filter Views

External Document Links

- [CA and CW ETSI DVB_T T2 6MHz](#)
- [Application Guide ETSI DVB-T and T2 8MHz](#)
- [CA and CW ATSC 6MHz](#)
- [CA and CW ISDB_T 6MHz](#)

Notes

Product no longer available