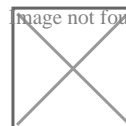




The RFS CA8PPXX201E-M is designed for global filtering applications associated with DTV television transmission. It is an 8-pole balanced filter incorporating two cross couplings to meet all mask requirements.

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CA8PPXX201-M Filter

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 coupling adjustment simplifies tuning.
- Tunable for ETSI critical, ISDB-T critical or ATSC applications.
- -5 to 55 degree ambient temperature operation.
- For applications above 20kW, 4 1/2" IEC connectors are used.

Technical features

GENERAL SPECIFICATIONS

Product Line		Filters
Product Type		Band IV/V (UHF) TV Bandpass Filter
Model		CA8PPXX201E-M
Filter type		8 Pole with 2 cross couplings - 200 mm ground plane spacing
Input / Output Connector		3-1/8" EIA Unflanged Female (Standard) or 3-1/8" EIA Flange Female (optional)

MECHANICAL SPECIFICATIONS

Weight	kg (lb)	155 (341)
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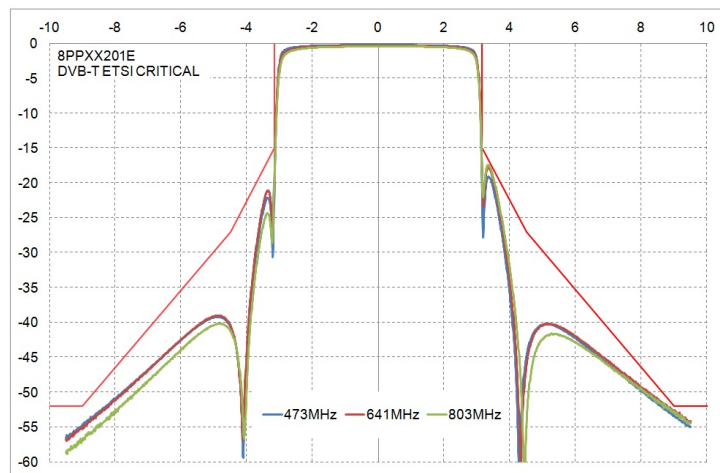
COOLING

Maximum Coolant Temp	°C (°F)	55 (131)
Flow Rate	l/min	3 ≤ rate ≤ 12 (1 ≤ rate ≤ 4 US gal/min)
Max. Propylene Glycol / Water Concentration	%	50



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	18.2 @ 474 MHz 14.2 @ 858 MHz	16.2 @ 473MHz 12.2 @ 803MHz	25.0 @ 473MHz 16.0 @ 803MHz	15.2 @ 473MHz 10.2 @ 803MHz
Insertion Loss at fc	dB	<0.32 @ 474 MHz <0.40 @ 858 MHz	<0.37 @ 473 MHz <0.49 @ 803 MHz	<0.42 @ 473 MHz <0.53 @ 803 MHz	<0.43 @ 473 MHz <0.49 @ 614 MHz <0.54 @ 803 MHz
Attenuation	dB	<1.45 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	<1.85 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	<1.55 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	<0.98 at Fc ± 2.69 MHz >7.0 at Fc ± 3.25 MHz >7.0 at Fc ± 3.50 MHz >40.0 at Fc ± 6.0 MHz >65.0 at Fc ± 9.0 MHz
VSWR average across carriers		<1.09			
Return Loss Average Across Carriers	dB	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 ± 2.79 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)			

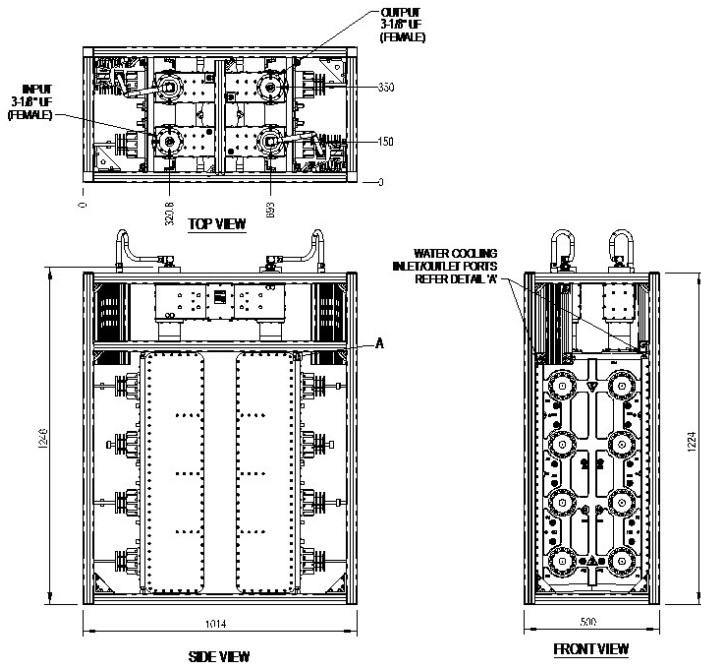


CA8PPXX201E_M Response



CA8PPXX201E-M Series

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



CA8PPXX201E-M Filter Views

External Document Links

- [ETSI 6MHz Application Guide](#)
- [ETSI 8MHz Application Guide](#)
- [ATSC Application Guide](#)
- [ISDB-T 6MHz Application Guide](#)

Notes