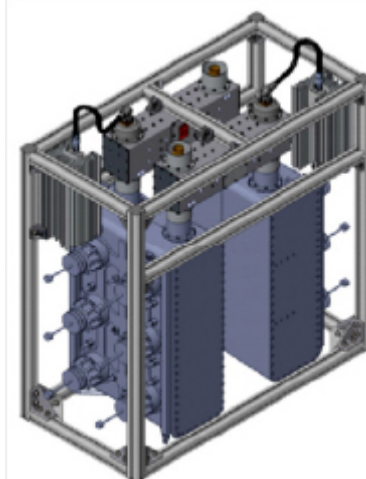




The RFS CA6PPXX200E-M is designed for global filtering applications associated with DTV television transmission. It is a 6-pole balanced filter incorporating two cross couplings to meet all mask requirements.

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 – 862MHz).
- Adjustable bandwidth, available for 6, 7 & 8MHz channels for global applications.
- External, non-invasive coupling adjustment.
- Tunable for ETSI and ISDB-T critical and non-critical, and ATSC applications.
- -5 to 55 degree ambient temperature operation.



CA6PPXX201E_M Module

Technical features

GENERAL SPECIFICATIONS

Product Line		Filters
Product Type		Band IV/V (UHF) TV Bandpass Filter
Model		CA6PPXX200E-M
Filter type		6 Pole with 2 cross couplings - 200 mm ground plane spacing
Input / Output Connector		3-1/8"EIA Unflanged Female (Standard), 3-1/8"EIA Flange Female (Optional)

ELECTRICAL SPECIFICATIONS

Impedance	Ω	50
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MECHANICAL SPECIFICATIONS

Weight	kg (lb)	153 (253)
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COOLING

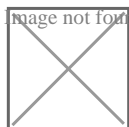
Cooling		Natural air
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SPECIFICATIONS

Out-of-Band Emissions Mask		DVB-T ETSI non-critical	DVB-T ETSI critical	ISDB-T sub critical	ISDB-T critical	ATSC	ATSC Stringent	
Channel Bandwidths	MHz	8	8	6	6	6	6	
Input Power Rating	kW	18.8 @ 474 MHz 13.8 @ 858 MHz	17.0 @ 474 MHz 13.0 @ 858 MHz	14.0 @ 473MHz 11.4 @ 803MHz	13.0 @ 473MHz 11.0 @ 803MHz	15.0 @ 473MHz 11.4 @ 803MHz	16.0 @ 473MHz 12.0 @ 803MHz	
Insertion Loss at fc	dB	< 0.24 @ 474 MHz < 0.28 @ 858 MHz	< 0.28 @ 474 MHz < 0.32 @ 858 MHz	< 0.32 @ 473 MHz < 0.39 @ 803 MHz	< 0.35 @ 473 MHz < 0.40 @ 803 MHz	< 0.31 @ 473 MHz < 0.40 @ 803 MHz	< 0.34 @ 473 MHz < 0.38 @ 641 MHz < 0.41 @ 803 MHz	
Attenuation	dB	< 0.59 ± 3.8 @ fc=474 MHz < 0.67 ± 3.8 @ fc=666 MHz < 0.85 ± 3.8 @ fc=858 MHz > 5.0 ± 4.2 MHz > 16.0 ± 6.0 MHz > 41.0 ± 12.0 MHz	< 1.1 ± 3.8 @ fc=474 MHz < 1.35 ± 3.8 @ fc=666 MHz < 1.75 ± 3.8 @ fc=858 MHz Fc ± 4.2 MHz > 24.0 at Fc ± 6.0 MHz > 42.0 at Fc ± 12.0 MHz	< 0.94 ± 2.79 @ fc=473 MHz < 1.04 ± 2.79 @ fc=641 MHz < 1.19 ± 2.79 @ fc=803 MHz > 8.0 at Fc ± 3.15 MHz > 24.0 at Fc ± 4.5 MHz > 50.0 at Fc ± 9.0 MHz	< 1.17 ± 2.79 @ fc=473 MHz < 1.42 ± 2.79 @ fc=641 MHz < 1.59 ± 2.79 @ fc=803 MHz > 11.0 at Fc ± 3.15 MHz > 26.0 at Fc ± 4.5 MHz > 53.0 at Fc ± 9.0 MHz	< 0.51 ± 2.69 @ fc=473 MHz < 0.55 ± 2.69 @ fc=641 MHz < 0.68 ± 2.69 @ fc=803 MHz > 1.0 at Fc ± 3.25 MHz > 3.0 at Fc ± 3.5 MHz > 40.0 at Fc ± 6.0 MHz > 63.0 at Fc ± 9.0 MHz	< 0.66 ± 2.69 @ fc=473 MHz < 0.81 ± 2.69 @ fc=641 MHz < 0.92 ± 2.69 @ fc=803 MHz > 7.0 at Fc ± 3.25 MHz > 7.0 at Fc ± 3.50 MHz > 36.0 at Fc ± 6.0 MHz > 36.0 at Fc ± 9.0 MHz	
VSWR average across carriers		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	
Return Loss Average Across Carriers	dB	26.4	26.4	26.4	26.4	26.4	26.4	
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)						

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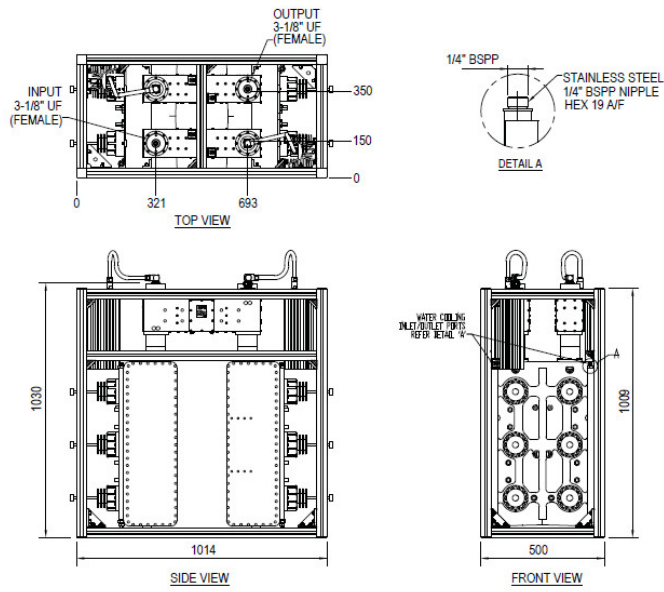


6PPXX200E Response



CA6PPXX200E-M Series

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



CA6PPXX201E_M Filter Views

External Document Links

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

Notes