

UHF 8-Pole 80 mm Bandpass Filter

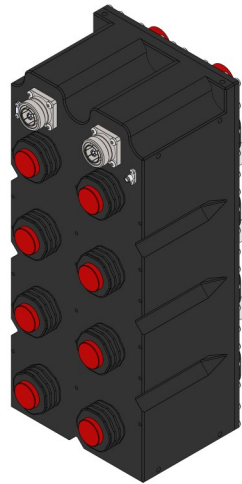
FC8D80C

FEATURES

- *DualCross*: Double Cross-Coupling
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Rack-Shelf ⁽⁷⁾
- Heat Sinks


DVB T2
 TERRESTRIAL

ATSC
 ADVANCED TELEVISION
 SYSTEMS COMMITTEE

ISDB-T

SPECIFICATIONS

Code / Revision	A-FC8D80C / A						
No. of Poles / Cavity Size	8-Pole <i>DualCross</i> / 80 mm						
Frequency Range / Bandwidth	470-862 MHz / 6-8 MHz						
Temperature Stability	< 2 kHz/K						
Max Operating Temperature (Body)	65 °C (149 °F)						
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60						
Dimensions / Weight ⁽¹⁾	391x173x200 mm / 10.4 kg						
Output Monitor Probe	SMA Female						
Connectors (Input, Output) ⁽²⁾	2x 32 mm D-PC32C N Female D-PC32E 7-16 Female (Default) D-PC32G 7/8" FastLine Socket D-PC32H 7/8" FastLine Flange D-PC32J 1+5/8" FastLine Socket D-PC32K 1+5/8" FastLine Flange						
Options ⁽²⁾	O-KC4.01 4U Rack with Panel and Handles ⁽⁷⁾ O-HFC.05 Heat Sinks						
TUNING	DVB-T2 / DVB-T (8 MHz)		ATSC 3.0 / ATSC 1.0 (6MHz)		ISDB-T (6MHz)		
Mask	Critical		Increased Attenuation		Critical		
Tuning Code	T-8D.06 / T-8D.01		T-8D.05		T-8D.04		
Max RMS Input Power ⁽³⁾	(700 MHz) Default 550 W Heat Sinks 670 W		(700 MHz) Default 510 W Heat Sinks 620 W		(700 MHz) Default 450 W Heat Sinks 540 W		
Efficiency (Typ.)	82%		80%		77%		
Insertion Loss	(470 MHz) (700 MHz) C.F. < 0.56 dB < 0.62 dB ±3.885 MHz < 3.36 dB < 3.69 dB ±3.805 MHz < 2.30 dB < 2.52 dB		(470 MHz) (700 MHz) C.F. < 0.69 dB < 0.76 dB ±2.916 MHz < 1.46 dB < 1.60 dB ±2.69 MHz < 1.06 dB < 1.17 dB		(470 MHz) (700 MHz) C.F. < 0.76 dB < 0.84 dB ±2.79 MHz < 1.90 dB < 2.09 dB		
Selectivity	C.F. ± 4.2 MHz > 14 dB / > 15 dB C.F. ± 6.0 MHz > 30 dB C.F. ± 12.0 MHz > 51 dB		C.F. ± 3.5 MHz > 15 dB C.F. ± 6.0 MHz > 45 dB C.F. ± 9.0 MHz > 63 dB		C.F. ± 3.15 MHz > 15 dB C.F. ± 4.5 MHz > 31 dB C.F. ± 9.0 MHz > 61 dB		
Harmonic Attenuation ⁽⁶⁾	> 50 dB up to 1.2 GHz		> 50 dB up to 1.2 GHz		> 50 dB up to 1.2 GHz		
Return Loss (VSWR)	> 22 dB (1.17) / > 25 dB (1.12)		> 25 dB (1.12)		> 25 dB (1.12)		
Group Delay Variation	< 700 ns		< 460 ns		< 700 ns		

⁽¹⁾ Approximate, default configuration ⁽²⁾ Other Connectors, Options, Tunings available ⁽³⁾ Altitude < 1500 m (4,900 ft.), Free air, Ambient temp. < 30 °C (86 °F)

⁽⁵⁾ Glycol 30%, Liquid temp. 45 °C (113 °F), Liquid flow 6 l/min (1.6 gal/min) ⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter