

UHF 6-Pole 80 mm Bandpass Filter

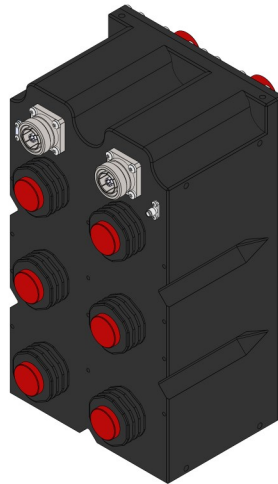
FC6D80C

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-FC6D80C / A		
No. of Poles / Cavity Size	6-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⁾	304x173x200 mm / 8.2 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 3U Rack with Panel and Handles ⁽⁷⁾ O-HFC.04 Heat Sinks		
TUNING	DVB-T2 / DVB-T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6MHz)	ISDB-T (6MHz)
Mask	Non Critical	Full Service	Non Critical, Sub Critical ⁽¹⁸⁾
Tuning Code	T-6D.13 / T-6D.01	T-6D.16 / T-6D.05	T-6D.14
Max RMS Input Power ⁽³⁾	(700 MHz) Default 650 W Heat Sinks 800 W	(700 MHz) Default 560 W Heat Sinks 680 W	(700 MHz) Default 520 W Heat Sinks 630 W
Efficiency (Typ.)	88%	86%	84%
Insertion Loss	(470 MHz) (700 MHz) C.F. < 0.37 dB < 0.41 dB ±3.885 MHz < 1.30 dB < 1.44 dB ±3.805 MHz < 1.07 dB < 1.19 dB	(470 MHz) (700 MHz) C.F. < 0.49 dB < 0.54 dB ±2.916 MHz < 0.85 dB < 0.95 dB ±2.69 MHz < 0.67 dB < 0.74 dB	(470 MHz) (700 MHz) C.F. < 0.51 dB < 0.57 dB ±2.79 MHz < 1.15 dB < 1.28 dB
Selectivity	C.F. ± 4.2 MHz > 4 dB / > 5 dB C.F. ± 6.0 MHz > 20 dB C.F. ± 12.0 MHz > 41 dB	C.F. ± 3.5 MHz > 6 dB / > 10 dB C.F. ± 6.0 MHz > 29 dB C.F. ± 9.0 MHz > 63 dB	C.F. ± 3.15 MHz > 7 dB C.F. ± 4.5 MHz > 22 dB C.F. ± 9.0 MHz > 47 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)	> 23 dB (1.15) / > 25 dB (1.12)	> 26 dB (1.11)	> 25 dB (1.12)
Group Delay Variation	< 360 ns / < 330 ns	< 320 ns / < 240 ns	< 360 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)

⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter ⁽⁷⁾ Reduced operating power ⁽¹⁸⁾ Can be achieved with a suitable TX spectrum