

UHF 6-Pole 50 mm Bandpass Filter

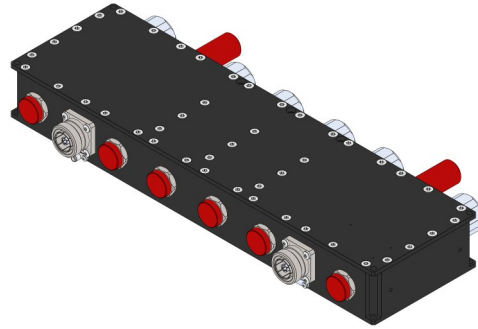
CL6X50C

FEATURES

- XLine: Extracted-Pole
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Rack-Shelf ⁽⁷⁾


DVB T2
 TERRESTRIAL

ATSC
 ADVANCED TELEVISION
 SYSTEMS COMMITTEE

ISDB-T

SPECIFICATIONS

Code / Revision	A-CL6X50C / A		
No. of Poles / Cavity Size	6-Pole XLine / 50 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⁾	420x53x185 mm / 3.8 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-KC2.01 2U Rack with Panel and Handles ⁽⁷⁾		
TUNING	DVB-T2 / DVB-T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6MHz)	ISDB-T (6MHz)
Mask	Non Critical	Simple, Stringent ⁽¹⁸⁾	Non Critical ⁽¹⁸⁾
Tuning Code	T-6X.07 / T-6X.01	T-6X.04	T-6X.05
Max RMS Input Power ⁽³⁾	Default (700 MHz) 300 W	Default (700 MHz) 250 W	Default (700 MHz) 240 W
Efficiency (Typ.)	81%	77%	76%
Insertion Loss	(470 MHz) (700 MHz) C.F. < 0.63 dB < 0.67 dB ±3.885 MHz < 1.77 dB < 1.88 dB ±3.805 MHz < 1.51 dB < 1.61 dB	(470 MHz) (700 MHz) C.F. < 0.80 dB < 0.85 dB ±2.916 MHz < 1.39 dB < 1.48 dB ±2.69 MHz < 1.07 dB < 1.14 dB	(470 MHz) (700 MHz) C.F. < 0.83 dB < 0.89 dB ±2.79 MHz < 1.39 dB < 1.48 dB
Selectivity	C.F. ± 4.2 MHz > 4 dB / > 5 dB C.F. ± 6.0 MHz > 18 dB C.F. ± 12.0 MHz > 40 dB	C.F. ± 3.5 MHz > 6 dB / > 10 dB C.F. ± 6.0 MHz > 24 dB C.F. ± 9.0 MHz > 36 dB	C.F. ± 3.15 MHz > 5 dB C.F. ± 4.5 MHz > 18 dB C.F. ± 9.0 MHz > 38 dB
Harmonic Attenuation ⁽⁶⁾	> 50 dB up to 1.4 GHz		
Return Loss (VSWR)	> 23 dB (1.15) / > 25 dB (1.12)		
Group Delay Variation	< 240 ns / < 220 ns		
	< 220 ns / < 160 ns		
	< 280 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