

## UHF 7-Pole 50 mm Bandpass Filter

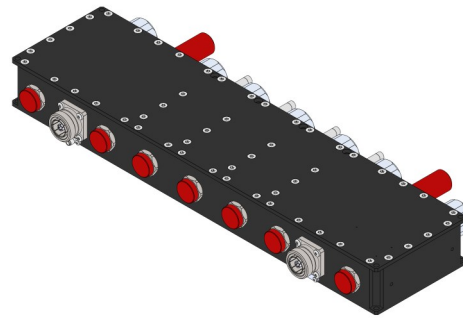
CL7X50C

## FEATURES

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

## OPTIONS

- Rack-Shef (7)


**DVB T2**  
 TERRESTRIAL

**ATSC**  
 ADVANCED TELEVISION  
 SYSTEMS COMMITTEE

**ISDB-T**

## SPECIFICATIONS

Code / Revision	A-CL7X50C / A		
No. of Poles / Cavity Size	7-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)	482x53x185 mm / 4.3 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)		
<b>TUNING</b>	<b>DVB-T2 / DVB-T (8 MHz)</b>	<b>ATSC 3.0 / ATSC 1.0 (6MHz)</b>	<b>ISDB-T (6MHz)</b>
Mask	Critical	Stringent	Sub Critical, Critical (18)
Tuning Code	T-7X.06 / T-7X.01	T-7X.04	T-7X.05
Max RMS Input Power (3)	Default (700 MHz) 270 W	Default (700 MHz) 260 W	Default (700 MHz) 230 W
Efficiency (Typ.)	77%	76%	72%
Insertion Loss	(470 MHz) (700 MHz) C.F. < 0.81 dB < 0.87 dB ±3.885 MHz < 3.32 dB < 3.55 dB ±3.805 MHz < 2.59 dB < 2.77 dB	(470 MHz) (700 MHz) C.F. < 0.96 dB < 1.02 dB ±2.916 MHz < 1.62 dB < 1.73 dB ±2.69 MHz < 1.38 dB < 1.47 dB	(470 MHz) (700 MHz) C.F. < 1.09 dB < 1.16 dB ±2.79 MHz < 2.19 dB < 2.34 dB
Selectivity	C.F. ± 4.2 MHz > 13 dB C.F. ± 6.0 MHz > 26 dB C.F. ± 12.0 MHz > 51 dB	C.F. ± 3.5 MHz > 10 dB C.F. ± 6.0 MHz > 29 dB C.F. ± 9.0 MHz > 47 dB	C.F. ± 3.15 MHz > 14 dB C.F. ± 4.5 MHz > 23 dB C.F. ± 9.0 MHz > 55 dB
Harmonic Attenuation (6)	> 50 dB up to 1.4 GHz		
Return Loss (VSWR)	> 21 dB (1.20)		
Group Delay Variation	< 520 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 3<sup>rd</sup> harmonic atten. with LP/LC Series Lowpass Filter (7) Reduced operating power (18) Can be achieved with a suitable TX spectrum