

VHF B.III 6-Pole 30 mm Bandpass Filter

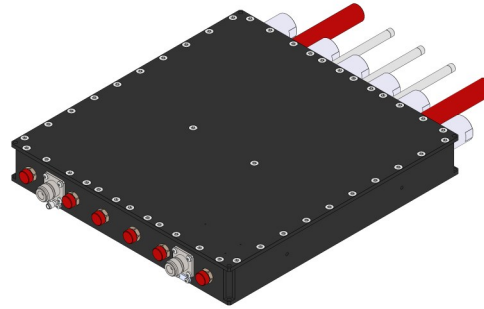
CL6X30B

FEATURES

- XLine: Extracted-Pole
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe ⁽¹⁵⁾
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Rack-Shelf ⁽⁷⁾


DVB T2
 TERRESTRIAL

ATSC
 ADVANCED TELEVISION
 SYSTEMS COMMITTEE

ISDB-T

SPECIFICATIONS

Code / Revision	A-CL6X30B / A		
No. of Poles / Cavity Size	6-Pole XLine / 30 mm		
Frequency Range / Bandwidth	174-240 MHz / 6-8 MHz		
Temperature Stability	< 4 kHz/K		
Max Operating Temperature (Body)	65 °C (149 °F)		
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60		
Dimensions / Weight ⁽¹⁾	286x42x405 mm / 4.5 kg		
Output Monitor Probe ⁽¹⁵⁾	SMA Female		
Connectors (Input, Output) ⁽²⁾	2x 25 mm D-PC25C N Female (Default) D-PC25E 7-16 Female		
Options ⁽²⁾	O-KC1.01 1U Rack with Panel and Handles ⁽⁷⁾		
TUNING	DVB-T2 / DVB T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6 MHz)	ISDB-T (6 MHz)
Mask	Non Critical	Simple, Stringent ⁽¹⁸⁾	Non Critical ⁽¹⁸⁾
Tuning Code	T-6X.02 / T-6X.01	T-6X.04	T-6X.05
Max RMS Input Power ⁽³⁾	(230 MHz) Default 130 W	(216 MHz) Default 130 W	(216 MHz) Default 120 W
Efficiency (Typ.)	81%	80%	80%
Insertion Loss	(174 MHz) (230 MHz) C.F. < 0.82 dB < 0.82 dB ±3.40 MHz < 2.02 dB < 2.02 dB ±3.33 MHz < 1.73 dB < 1.73 dB	(174 MHz) (216 MHz) C.F. < 0.91 dB < 0.91 dB ±2.916 MHz < 1.58 dB < 1.58 dB ±2.69 MHz < 1.22 dB < 1.22 dB	(174 MHz) (216 MHz) C.F. < 0.95 dB < 0.95 dB ±2.79 MHz < 1.58 dB < 1.58 dB
Selectivity	C.F. ± 3.7 MHz > 3 dB / > 5 dB C.F. ± 5.25 MHz > 16 dB C.F. ± 10.5 MHz > 38 dB	C.F. ± 3.5 MHz > 6 dB / > 10 dB C.F. ± 6.0 MHz > 23 dB C.F. ± 9.0 MHz > 36 dB	C.F. ± 3.15 MHz > 5 dB C.F. ± 4.5 MHz > 16 dB C.F. ± 9.0 MHz > 38 dB
Harmonic Attenuation ⁽⁶⁾	> 50 dB up to 620 MHz	> 50 dB up to 620 MHz	> 50 dB up to 620 MHz
Return Loss (VSWR)	> 24 dB (1.14) / > 25 dB (1.12)	> 25 dB (1.12)	> 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 ⁽¹⁵⁾ Monitor Probe available only with N Conn. ⁽¹⁸⁾ Can be achieved with a suitable TX spectrum