

UHF 7-Pole 30 mm Starpoint Combiner

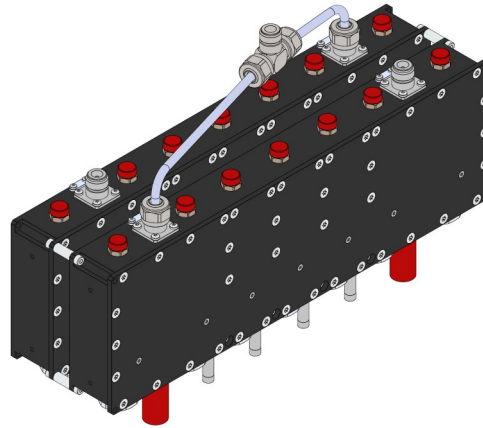
SB7X30C

FEATURES

- XLine: Extracted-Pole
- 1 Guard-Channel Spacing
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Frame


DVB T2
 TERRESTRIAL

ATSC
 ADVANCED TELEVISION
 SYSTEMS COMMITTEE

ISDB-T

SPECIFICATIONS

Code / Revision	B-SB7X30C / A		
No. of Poles / Cavity Size	7-Pole XLine / 30 mm		
Frequency Range / Bandwidth	470-800 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⁾	376x100x230 mm / 6 kg		
Links	SM250 Cable (N Female)		
Connectors (Inputs) ⁽²⁾	2x 25 mm D-PC25C N Female (Default) D-PC25E 7-16 Female		
Connectors (Output) ⁽²⁾	N Female (Fixed)		
Options ⁽²⁾	O-RDB.01 30 mm Encased frame		
TUNING	DVB-T2 / DVB T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6 MHz)	ISDB-T (6 MHz)
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 ^(3,4,21)	(700 MHz) Default 150 W	(700 MHz) Default 150 W	(700 MHz) Default 150 W
Insertion Loss ⁽⁴⁾	(470 MHz) (700 MHz) C.F. < 1.23 dB < 1.23 dB ±3.885 MHz < 5.04 dB < 5.04 dB ±3.805 MHz < 3.94 dB < 3.94 dB + 0.03·(n+1) dB	(470 MHz) (700 MHz) C.F. < 1.45 dB < 1.45 dB ±2.916 MHz < 2.46 dB < 2.46 dB ±2.69 MHz < 2.09 dB < 2.09 dB + 0.03·(n+1) dB	(470 MHz) (700 MHz) C.F. < 1.65 dB < 1.65 dB ±2.79 MHz < 3.32 dB < 3.32 dB + 0.03·(n+1) 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 1.8 GHz	> 50 dB up to 1.8 GHz	> 50 dB up to 1.8 GHz
Return Loss (VSWR) ⁽⁴⁾	> 20 dB (1.22) / > 22 dB (1.17)	> 22 dB (1.17)	> 21 dB (1.20)
Isolation Between Inputs ⁽⁴⁾	> 30 dB	> 30 dB	> 30 dB
Group Delay Variation ⁽⁴⁾	< 520 ns	< 340 ns	< 520 ns

⁽¹⁾ Approximate, default configuration ⁽²⁾ Other Other Connectors, Options, Tunings available ⁽³⁾ Altitude < 1500 m (4.900 ft.), Free air, Ambient temp. < 30 °C (86 °F)

⁽⁴⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter ⁽¹⁸⁾ Can be achieved with a suitable TX spectrum