

UHF 6-Pole 80 mm Starpoint Combiner

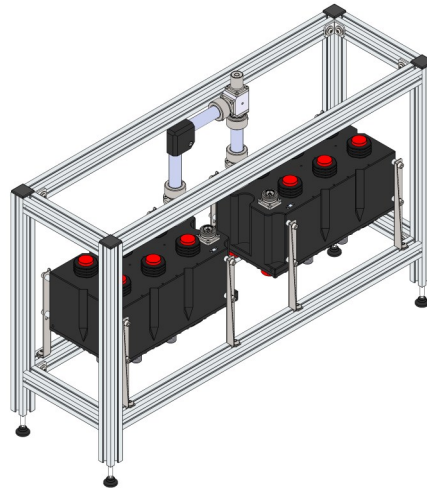
SM6D80C

FEATURES

- *DualCross*: Double Cross Coupling
- 1 Guard-Channel Spacing
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Modular Connector System
- Modular Frame System
- 10-Year Warranty

OPTIONS

- Heat Sinks


DVB-T2
 TERRESTRIAL

ATSC
 ADVANCED TELEVISION
 SYSTEMS COMMITTEE

ISDB-T

SPECIFICATIONS

Code / Revision	B-SM6D80C / B		
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⁾	815x227x525 mm / 23 kg		
Links	7/8" Rigid Line		
Connectors (Inputs) ⁽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		
Connectors (Output) ⁽²⁾	1x 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-HFC.04 Heat Sinks		
TUNING	DVB-T2 / DVB T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6 MHz)	ISDB-T (6 MHz)
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 ^(3,4,21)	(700 MHz) Default 650 W Heat Sinks 790 W	(700 MHz) Default 560 W Heat Sinks 680 W	(700 MHz) Default 520 W Heat Sinks 630 W
Insertion Loss ⁽⁴⁾	(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 + 0.01·(n+1) dB	(470 MHz) (700 MHz) C.F. < 0.52 dB < 0.61 dB ±2.916 MHz < 1.20 dB < 1.40 dB ±2.69 MHz < 0.90 dB < 1.05 dB + 0.01·(n+1) dB	(470 MHz) (700 MHz) C.F. < 0.51 dB < 0.57 dB ±2.79 MHz < 1.15 dB < 1.28 dB + 0.01·(n+1) 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		
Return Loss (VSWR) ⁽⁴⁾	> 23 dB (1.15) / > 25 dB (1.12)		
Isolation Between Inputs ⁽⁴⁾	> 30 dB		
Group Delay Variation ⁽⁴⁾	< 360 ns / < 330 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)

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