

VHF B.III 6-Pole 80 mm Starpoint Combiner

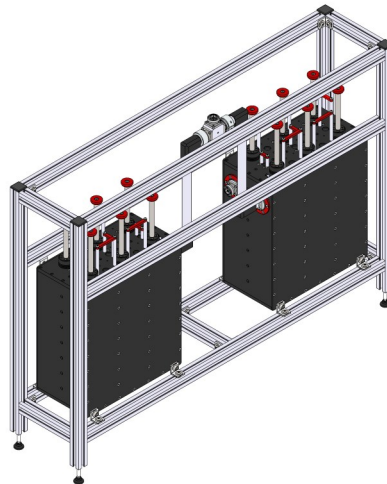
SM6D80B

FEATURES

- *DualCross*: Double Cross Coupling
- SIR Resonator Design
- *NDR*
- Up to 4-Channel Combination
- 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-SM6D80B/n / A <i>n: Number of Filtered Inputs</i>		
No. of Poles / Cavity Size	6-Pole DualCross / 80 mm		
Frequency Range / Bandwidth	174-240 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⁾	1094x238x780 mm / 48 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-HTS.01 Heat Sinks		
TUNING	DVB-T2 / DVB-T (7 MHz)	ATSC 3.0 / ATSC 1.0 (6MHz)	ISDB-T (6MHz)
Mask	Non Critical	Full Service	Non Critical, Sub Critical ⁽¹⁸⁾
Tuning Code	T-6D.12	T-6D.05	T-6D.14
Max RMS Input Power ⁽³⁾	Default (230 MHz) 1.2 kW Heat Sinks 1.5 kW	Default (216 MHz) 1.2 kW Heat Sinks 1.5 kW	Default (216 MHz) 1.1 kW Heat Sinks 1.4 kW
Insertion Loss	C.F. (174 MHz) (230 MHz) < 0.49 dB < 0.53 dB ±3.40 MHz < 1.18 dB < 1.33 dB ±3.33 MHz < 0.98 dB < 1.09 dB + 0.01·(n+1) dB	C.F. (174 MHz) (216 MHz) < 0.55 dB < 0.60 dB ±2.916 MHz < 0.78 dB < 0.85 dB ±2.69 MHz < 0.61 dB < 0.66 dB + 0.01·(n+1) dB	C.F. (174 MHz) (216 MHz) < 0.47 dB < 0.51 dB ±2.79 MHz < 1.05 dB < 1.14 dB + 0.01·(n+1) dB
Selectivity	C.F. ± 3.7 MHz > 3 dB / > 5 dB C.F. ± 5.25 MHz > 16 dB C.F. ± 10.5 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 > 6 dB C.F. ± 4.5 MHz > 19 dB C.F. ± 9.0 MHz > 47 dB
Harmonic Attenuation ⁽⁶⁾	> 36 dB up to 500 MHz		
Return Loss (VSWR)	> 23 dB (1.15) / > 25 dB (1.12)		
Isolation Between Inputs	> 30 dB		
Group Delay Variation	< 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