

UHF 8-Pole 80 mm Balanced Combiner

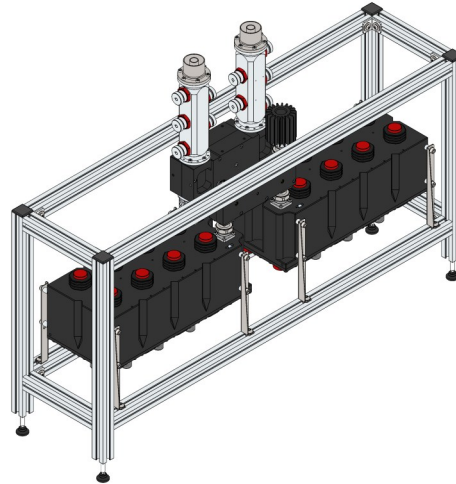
DM8D80C

FEATURES

- *DualCross*: Double Cross Coupling
- Adjacent-Channel Combination
- 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-DM8D80C/n / C <i>n</i> : Number of Filtered Inputs		
No. of Poles / Cavity Size	8-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⁾	n=1: 989x251x681 mm / 33 kg n≥2: 989x(251·n)x681 mm / 33·n kg		
Links	1+5/8" Rigid Line		
Connectors (NB Inputs) ⁽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		
Connectors (WB Input; Output) ⁽²⁾	2x 64 mm D-PC64J 1+5/8" FastLine Socket (Default) D-PC64K 1+5/8" FastLine Flange D-PC64M 3+1/8" FastLine Socket D-PC64N 3+1/8" FastLine Flange		
Options ⁽²⁾	O-HFC.05 Heat Sinks		
TUNING	DVB-T2 / DVB T (8 MHz)	ATSC 3.0 / ATSC 1.0 (6 MHz)	ISDB-T (6 MHz)
Mask	Critical	Increased Attenuation	Critical
Tuning Code	T-8D.06 / T-8D.01	T-8D.05	T-8D.04
Max RMS NB Input Power ^(3,4)	(700 MHz) Default 1.1 kW Heat Sinks 1.3 kW	(700 MHz) Default 1.0 kW Heat Sinks 1.2 kW	(700 MHz) Default 890 W Heat Sinks 1.1 kW
Max RMS Output Power ⁽³⁾	7.0 kW		7.0 kW
NB Insertion Loss ⁽⁴⁾	(470 MHz) (700 MHz) C.F. < 0.56 dB < 0.62 dB ±3.885 MHz < 3.36 dB < 3.69 dB ±3.805 MHz < 2.30 dB < 2.52 dB + 0.06·n dB	(470 MHz) (700 MHz) C.F. < 0.69 dB < 0.76 dB ±2.916 MHz < 1.46 dB < 1.60 dB ±2.69 MHz < 1.06 dB < 1.17 dB + 0.06·n dB	(470 MHz) (700 MHz) C.F. < 0.76 dB < 0.84 dB ±2.79 MHz < 1.90 dB < 2.09 dB + 0.06·n dB
WB Insertion Loss ⁽⁴⁾	< 0.06·n dB		< 0.06·n dB
Selectivity	C.F. ± 4.2 MHz > 14 dB / > 15 dB C.F. ± 6.0 MHz > 30 dB C.F. ± 12.0 MHz > 51 dB	C.F. ± 3.5 MHz > 15 dB C.F. ± 6.0 MHz > 45 dB C.F. ± 9.0 MHz > 63 dB	C.F. ± 3.15 MHz > 15 dB C.F. ± 4.5 MHz > 31 dB C.F. ± 9.0 MHz > 61 dB
Harmonic Attenuation ⁽⁶⁾	> 50 dB up to 1.2 GHz		> 50 dB up to 1.2 GHz
NB Return Loss (VSWR) ⁽⁴⁾	> 26 dB (1.11)		> 26 dB (1.11)
WB Return Loss (VSWR) ⁽⁴⁾	Single Ch. > 30 dB (1.07) All band > 26 dB (1.11)	Single Ch. > 30 dB (1.07) All band > 26 dB (1.11)	Single Ch. > 30 dB (1.07) All band > 26 dB (1.11)
Isolation Between Inputs ⁽⁴⁾	> 30 dB		> 30 dB
Group Delay Variation ⁽⁴⁾	< 700 ns		< 700 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⁾ Non-adjacent channels ⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter