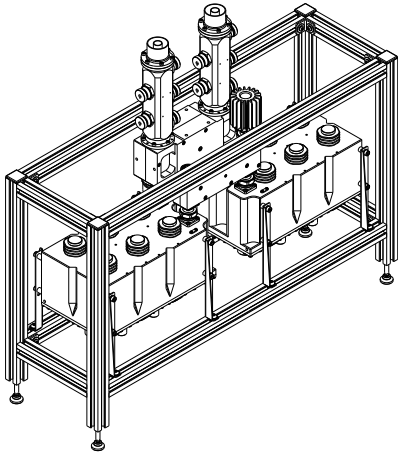


# UHF 6-Pole 80 mm Balanced Combiner

## DM6D80C



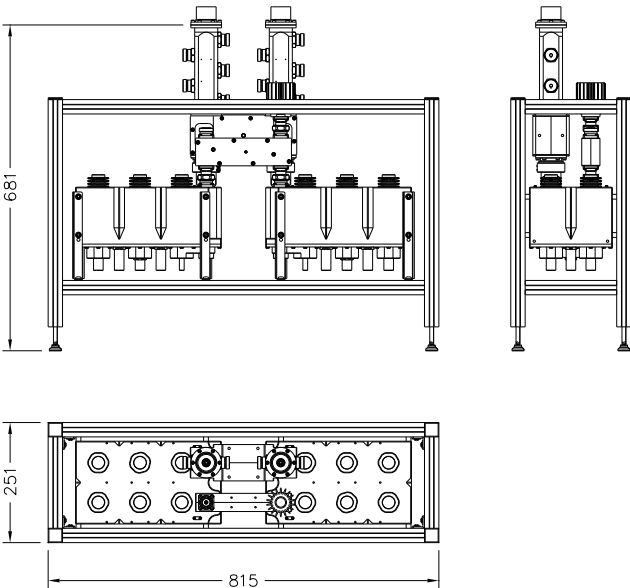
### FEATURES

- *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



### SPECIFICATIONS

Code / Revision	B-DM6D80C/n / C <i>n</i> : Number of Filtered Inputs
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 <sup>(1)</sup>	n=1: 815x251x681 mm / 28 kg n≥2: 815x(251·n)x681 mm / 28·n kg
Links	1+5/8" Rigid Line
Connectors <sup>(2)</sup>	<b>1x 32 mm NB Input</b> D-PC32C N Female D-PC32E 7-16 Female (Default) D-PC32G 7/8" <i>FastLine</i> Socket D-PC32H 7/8" <i>FastLine</i> Flange D-PC32J 1+5/8" <i>FastLine</i> Socket D-PC32K 1+5/8" <i>FastLine</i> Flange <b>2x 64 mm WB Input; Output</b> D-PC64J 1+5/8" <i>FastLine</i> Socket (Default) D-PC64K 1+5/8" <i>FastLine</i> Flange D-PC64M 3+1/8" <i>FastLine</i> Socket D-PC64N 3+1/8" <i>FastLine</i> Flange
Options <sup>(2)</sup>	O-HFC.04 Heat Sinks

TUNING DATA <sup>(2)</sup>	DVB-T2 / DVB T		ATSC 3.0 / ATSC 1.0		ISDB-T	
Mask (Bandwidth)	Non Critical (8 MHz)		Full Service (6 MHz)		Non Critical, Sub Critical <sup>(18)</sup> (6 MHz)	
Tuning Code	T-6D.13 / T-6D.01		T-6D.16 / T-6D.05		T-6D.14	
Max RMS NB Input Power <sup>(3,4)</sup>	Default	(700 MHz) 1.3 kW	Default	(700 MHz) 1.1 kW	Default	(700 MHz) 1.0 kW
	Heat Sinks	1.6 kW	Heat Sinks	1.4 kW	Heat Sinks	1.3 kW
Max RMS Output Power <sup>(3)</sup>	7.0 kW		7.0 kW		7.0 kW	
NB Insertion Loss <sup>(4)</sup>	(470 MHz)	(700 MHz)	(470 MHz)	(700 MHz)	(470 MHz)	(700 MHz)
	C.F.	< 0.37 dB	< 0.41 dB	C.F.	< 0.49 dB	< 0.54 dB
	±3.885 MHz	< 1.30 dB	< 1.44 dB	±2.916 MHz	< 0.85 dB	< 0.95 dB
	±3.805 MHz	< 1.07 dB	< 1.19 dB	±2.69 MHz	< 0.67 dB	< 0.74 dB
		+ 0.06·n dB		+ 0.06·n dB		+ 0.06·n dB
WB Insertion Loss <sup>(4)</sup>	< 0.06·n dB		< 0.06·n dB		< 0.06·n dB	
Selectivity	C.F. ± 4.2 MHz	> 4 dB	C.F. ± 3.5 MHz	> 6 dB / > 10 dB	C.F. ± 3.15 MHz	> 7 dB
	C.F. ± 6.0 MHz	> 20 dB	C.F. ± 6.0 MHz	> 29 dB	C.F. ± 4.5 MHz	> 22 dB
	C.F. ± 12.0 MHz	> 41 dB	C.F. ± 9.0 MHz	> 63 dB	C.F. ± 9.0 MHz	> 47 dB
Harmonic Attenuation <sup>(6)</sup>	> 50 dB up to 1.2 GHz		> 50 dB up to 1.2 GHz		> 50 dB up to 1.2 GHz	
NB Return Loss (VSWR) <sup>(4)</sup>	> 26 dB (1.11)		> 26 dB (1.11)		> 26 dB (1.11)	
WB Return Loss (VSWR) <sup>(4)</sup>	Single Ch.	> 30 dB (1.07)	Single Ch.	> 30 dB (1.07)	Single Ch.	> 30 dB (1.07)
	All band	> 26 dB (1.11)	All band	> 26 dB (1.11)	All band	> 26 dB (1.11)
Isolation Between Inputs <sup>(4)</sup>	> 30 dB		> 30 dB		> 30 dB	
Group Delay Variation <sup>(4)</sup>	< 360 ns / < 330 ns		< 320 ns / < 240 ns		< 360 ns	

<sup>(1)</sup> Approximate, default configuration <sup>(2)</sup> Other Connectors, Options, Tunings available <sup>(3)</sup> Altitude < 1500 m (4900 ft.), Free air, Ambient temp. < 30 °C (86 °F) <sup>(4)</sup> Non-adjacent channels <sup>(6)</sup> Up to 3<sup>rd</sup> harmonic atten. with LP/LC Series Lowpass Filter <sup>(18)</sup> Can be achieved with a suitable TX spectrum