

FM 2-Pole 160 mm Balanced Combiner

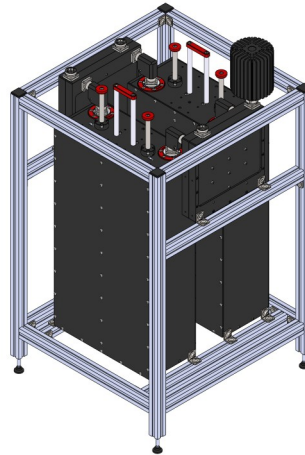
DM2P160RF

FEATURES

- EVA-Mode Design
- 1.4 MHz Minimum Frequency Spacing
- Full-Band Tunability
- DC-Short
- Modular Connector System
- Modular Frame System
- 10-Year Warranty

OPTIONS

- Heat Sinks



SPECIFICATIONS

Code / Revision	B-DM2P160RF/n / B <i>n: Number of Filtered Inputs</i>					
No. of Poles / Cavity Size	2-Pole / 160 mm					
Frequency Range	87.5-108 MHz					
Frequency Spacing	≥ 1.4 MHz					
Temperature Stability	< 800 Hz/K					
Max Operating Temperature (Body)	65°C (149°F)					
Environmental Conditions	-5 to +55°C (+23 to +131°F), IP60					
Dimensions / Weight ⁽¹⁾	527x556x862 mm / 50 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 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-HCS.05 Heat Sinks					
TUNING	3.0		2.6		2.0	
Minimum Frequency Spacing	3.0 MHz		1.8 MHz		1.4 MHz	
Tuning Code	T-2F.10		T-2F.12		T-2F.14	
Max RMS NB Input Power ⁽³⁾	(108 MHz) Default 4.4 kW Heat Sinks 5.3 kW		(108 MHz) Default 3.9 kW Heat Sinks 4.7 kW		(108 MHz) Default 3.1 kW Heat Sinks 3.7 kW	
Max RMS Output Power ⁽³⁾	5.9 kW		5.9 kW		5.9 kW	
NB Insertion Loss	(87.5 MHz) (108 MHz) C.F. < 0.31 dB < 0.34 dB ±150 kHz < 0.32 dB < 0.35 dB + 0.06·n dB		(87.5 MHz) (108 MHz) C.F. < 0.35 dB < 0.38 dB ±150 kHz < 0.38 dB < 0.42 dB + 0.06·n dB		(87.5 MHz) (108 MHz) C.F. < 0.45 dB < 0.49 dB ±150 kHz < 0.51 dB < 0.56 dB + 0.06·n dB	
WB Insertion Loss	< 0.06·n dB		< 0.06·n dB		< 0.06·n dB	
Selectivity	C.F. ± 3.0 MHz > 26 dB		C.F. ± 2.6 MHz > 26 dB		C.F. ± 2.0 MHz > 26 dB	
Harmonic Attenuation ⁽⁶⁾	> 40 dB up to 324 MHz		> 40 dB up to 324 MHz		> 40 dB up to 324 MHz	
NB Return Loss (VSWR)	> 26 dB (1.11)		> 26 dB (1.11)		> 26 dB (1.11)	
WB Return Loss (VSWR)	Single Ch. > 30 dB (1.07) All band > 24 dB (1.14)		Single Ch. > 30 dB (1.07) All band > 24 dB (1.14)		Single Ch. > 30 dB (1.07) All band > 24 dB (1.14)	
Isolation Between Inputs	> 35 dB		> 35 dB		> 35 dB	
Group Delay Variation	< 30 ns		< 40 ns		< 80 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