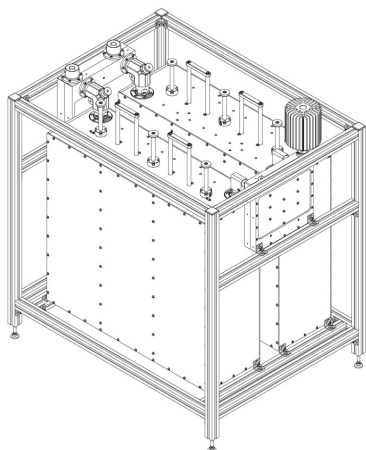


# FM 3-Pole 220 mm Balanced Combiner

## DM3P220F

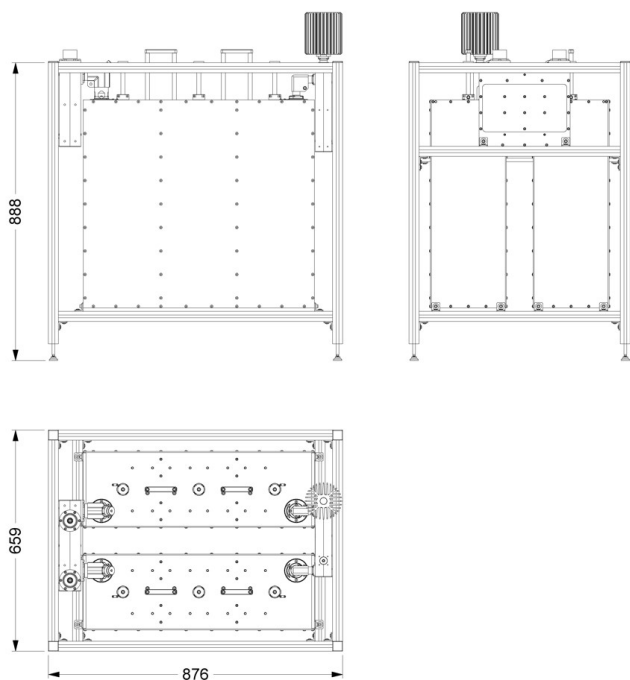


### FEATURES

- EVA-Mode
- 0.8 MHz Minimum Channel Spacing
- Full-Band Tunability
- DC-Short
- Modular Connector System
- Modular Frame System
- 10-Year Warranty

### OPTIONS

- Heat Sinks



### SPECIFICATIONS

Code / Revision	B-DM3P220F/n / B
	<i>n: Number of Filtered Inputs</i>
No. of Poles / Cavity Size	3-Pole / 220 mm
Frequency Range	87.5-108 MHz
Frequency Spacing	≥ 0.8 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 <sup>(1)</sup>	876x659x888 mm / 88 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" FastLine Socket D-PC32H 7/8" FastLine Flange D-PC32J 1+5/8" FastLine Socket D-PC32K 1+5/8" FastLine Flange <b>2x 64 mm WB Input; Output</b> 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 <sup>(2)</sup>	O-HCS.09 Heat Sinks

### TUNING DATA <sup>(2)</sup>

	2.0	1.4	1.0
Frequency Spacing (Bandwidth)	1.6 MHz (2.0 MHz)	1.2 MHz (1.4 MHz)	0.8 MHz (1.0 MHz)
Tuning Code	T-3F.01	T-3F.04	T-3F.05
Max RMS NB Input Power <sup>(3)</sup>	(108 MHz) Default 5.4 kW Heat Sinks 6.4 kW	(108 MHz) Default 3.9 kW Heat Sinks 4.7 kW	(108 MHz) Default 2.8 kW Heat Sinks 3.3 kW
Max RMS Output Power <sup>(3)</sup>	18.0 kW	18.0 kW	18.0 kW
NB Insertion Loss	(87.5 MHz) (108 MHz) C.F. < 0.24 dB < 0.24 dB ±150 kHz < 0.25 dB < 0.26 dB + 0.06·n dB	(87.5 MHz) (108 MHz) C.F. < 0.33 dB < 0.34 dB ±150 kHz < 0.35 dB < 0.36 dB + 0.06·n dB	(87.5 MHz) (108 MHz) C.F. < 0.47 dB < 0.48 dB ±150 kHz < 0.51 dB < 0.53 dB + 0.06·n dB
WB Insertion Loss	< 0.06·n dB	< 0.06·n dB	< 0.06·n dB
Selectivity	C.F. ± 2.0 MHz > 27 dB	C.F. ± 1.4 MHz > 27 dB	C.F. ± 1.0 MHz > 27 dB
Harmonic Attenuation	> 50 dB up to 324 MHz	> 50 dB up to 324 MHz	> 50 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	< 10 ns	< 20 ns	< 40 ns

<sup>(1)</sup> Approximate, default configuration <sup>(2)</sup> Other Connectors, Options, Tunings available <sup>(3)</sup> Altitude < 1500 m (4.900 ft.), Free air, Ambient temp. < 30 °C (86 °F)