

FM 3-Pole 280 mm Balanced Combiner

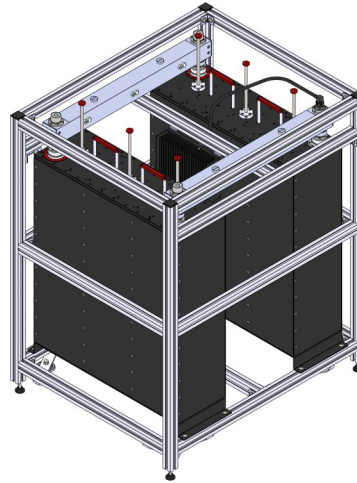
DF3P280RF

FEATURES

- Full-Band Tunability
- 0.8 MHz Minimum Frequency Spacing
- Temperature Stabilization
- DC-Short
- Modular Connector System
- Modular Frame System
- 10-Year Warranty

OPTIONS

- Heat Sinks



SPECIFICATIONS

Code / Revision	B-DF3P280RF/n / B <i>n: Number of Filtered Inputs</i>					
No. of Poles / Cavity Size	3-Pole / 280 mm					
Frequency Range	87.5-108 MHz					
Frequency Spacing	≥ 0.8 MHz					
Temperature Stability	< 400 Hz/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: 1151x933x1400 mm / 142 kg n≥2: 1151x(941·n)x1400 mm / 142·n kg					
Operating Position	As shown in drawing only					
Links	1+5/8" Rigid Line					
Connectors (NB Inputs) ⁽²⁾	1x 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					
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-HCS.11 Heat Sinks O-MTS.01 70 °C (158 °F) N.C. Thermoswitch					
TUNING	2.0		1.5		1.0	
Minimum Frequency Spacing	1.6 MHz		1.2 MHz		0.8 MHz	
Tuning Code	T-3F.10		T-3F.12		T-3F.14	
Max RMS NB Input Power ⁽³⁾	(108 MHz) Default 12.7 kW Heat Sinks 15.3 kW		(108 MHz) Default 9.9 kW Heat Sinks 11.8 kW		(108 MHz) Default 6.8 kW Heat Sinks 8.2 kW	
Max RMS Output Power ⁽³⁾	18.0 kW		18.0 kW		18.0 kW	
NB Insertion Loss	(87.5 MHz) (108 MHz) C.F. < 0.21 dB < 0.23 dB ±150 kHz < 0.22 dB < 0.24 dB + 0.05·n dB		(87.5 MHz) (108 MHz) C.F. < 0.27 dB < 0.30 dB ±150 kHz < 0.29 dB < 0.32 dB + 0.05·n dB		(87.5 MHz) (108 MHz) C.F. < 0.40 dB < 0.44 dB ±150 kHz < 0.44 dB < 0.48 dB + 0.05·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. ± 1.5 MHz > 27 dB		C.F. ± 1.0 MHz > 27 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	< 10 ns		< 30 ns		< 100 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