

FM 2-Pole 280 mm Starpoint Combiner

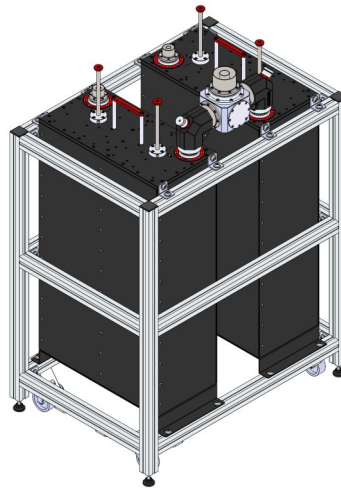
SF2P280F

FEATURES

- Up to 4-Channel Combination
- Full-Band Tunability
- 2.0 MHz Minimum Frequency Spacing
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Heat Sinks
- Forced Air Cooling
- Liquid Cooling



SPECIFICATIONS

Code / Revision	B-SF2P280F/n / A <i>n: Number of Filtered Inputs</i>					
No. of Poles / Cavity Size	2-Pole / 280 mm					
Frequency Range	87.5-108 MHz					
Frequency Spacing	≥ 2.0 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=2: 953x664x1146 mm / 79.3 kg n=3: 953x1328x1146 mm / 119 kg n=4: 953x1328x1146 mm / 158.6 kg					
Operating Position	As shown in drawing only					
Links	3+1/8" Rigid Line					
Connectors (Inputs) ⁽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					
Connectors (Output) ⁽²⁾	1x 100 mm D-PC100M 3+1/8" FastLine Socket (Default) D-PC100N 3+1/8" FastLine Flange D-PC100P 4+1/2" FastLine Socket D-PC100Q 4+1/2" FastLine Flange					
Options ⁽²⁾	O-HTS.10 Heat Sinks O-FTC.07 Forced Air Cooling O-LTC.10 Liquid Cooling O-MTS.01 70 °C (158 °F) N.C. Thermoswitch					
Liquid Cooling Interface ⁽²⁾ / Coolant	3/8" NPT Male / Water and Antifreeze					
TUNING	3.0		2.6		2.0	
Minimum Frequency Spacing	3.0 MHz		2.6 MHz		2.0 MHz	
Tuning Code	T-2F.10		T-2F.12		T-2F.14	
Max RMS Input Power ⁽³⁾	(108 MHz) Default 6.8 kW Heat Sinks 8.1 kW Forced Air Cooling 10.2 kW Liquid Cooling ⁽⁵⁾ 10.2 kW		(108 MHz) Default 6.0 kW Heat Sinks 7.2 kW Forced Air Cooling 9.0 kW Liquid Cooling ⁽⁵⁾ 9.0 kW		(108 MHz) Default 4.8 kW Heat Sinks 5.7 kW Forced Air Cooling 7.1 kW Liquid Cooling ⁽⁵⁾ 7.1 kW	
Insertion Loss	(87.5 MHz) (108 MHz) C.F. < 0.17 dB < 0.18 dB ±150 kHz < 0.17 dB < 0.19 dB + 0.01·(n+1) dB		(87.5 MHz) (108 MHz) C.F. < 0.19 dB < 0.21 dB ±150 kHz < 0.20 dB < 0.23 dB + 0.01·(n+1) dB		(87.5 MHz) (108 MHz) C.F. < 0.24 dB < 0.26 dB ±150 kHz < 0.28 dB < 0.31 dB + 0.01·(n+1) dB	
Harmonic Attenuation ⁽⁶⁾	> 40 dB up to 324 MHz		> 40 dB up to 324 MHz		> 40 dB up to 324 MHz	
Selectivity	C.F. ± 3.0 MHz > 26 dB		C.F. ± 2.6 MHz > 26 dB		C.F. ± 2.0 MHz > 26 dB	
Return Loss (VSWR)	> 26 dB (1.11)		> 26 dB (1.11)		> 23 dB (1.15)	
Isolation Between Inputs	> 30 dB		> 30 dB		> 30 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)

⁽⁵⁾ Glycol 30%, Liquid temp. 45 °C (113 °F), Liquid flow 6 l/min (1.6 gal/min) ⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter