

FM 3-Pole 560 mm Starpoint Combiner

SF3P560RF

FEATURES

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

OPTIONS

- Heat Sinks

SPECIFICATIONS

Code / Revision	B-SF3P560RF/n / A <i>n: Number of Filtered Inputs</i>		
No. of Poles / Cavity Size	3-Pole / 560 mm		
Frequency Range	87.5-108 MHz		
Frequency Spacing	≥ 1.0 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: - / - kg n=3: - / - kg n=4: - / - kg		
Operating Position	As shown in drawing only		
Links	4+1/2"		
Connectors (Inputs) ⁽²⁾	nx 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		
Connectors (Output) ⁽²⁾	1x 100 mm (n=2) 1x 130 mm Output (n=3, 4) D-PC100M 3+1/8" FastLine Socket (Default) D-PC130P 4+1/2" FastLine Socket (Default) D-PC100N 3+1/8" FastLine Flange D-PC130Q 4+1/2" FastLine Flange D-PC100P 4+1/2" FastLine Socket D-PC130S RL-120 FastLine Socket D-PC100Q 4+1/2" FastLine Flange D-PC130X RL120 FastLine Flange		
Options ⁽²⁾	O-RMX.04O 45 mm Modular Frame System O-HTC.17 Heat Sinks O-MTS.01 70 °C (158 °F) N.C. Thermoswitch		
Liquid Cooling Interface ⁽²⁾ / Coolant	3/8" NPT Male / Water and Antifreeze		
TUNING	2.0	1.5	1.0
Minimum Frequency Spacing	2.0 MHz	1.5 MHz	1.0 MHz
Tuning Code	T-3F.10	T-3F.12	T-3F.14
Max RMS Input Power ⁽³⁾	(108 MHz) Default 22.4 kW Heat Sinks 26.9 kW	(108 MHz) Default 17.6 kW Heat Sinks 21.1 kW	(108 MHz) Default 12.4 kW Heat Sinks 14.9 kW
Insertion Loss	(87.5 MHz) (108 MHz) C.F. < 0.11 dB < 0.13 dB ±150 kHz < 0.12 dB < 0.13 dB + 0.01·(n+1) dB	(87.5 MHz) (108 MHz) C.F. < 0.15 dB < 0.16 dB ±150 kHz < 0.16 dB < 0.17 dB + 0.01·(n+1) dB	(87.5 MHz) (108 MHz) C.F. < 0.21 dB < 0.23 dB ±150 kHz < 0.23 dB < 0.25 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. ± 2.0 MHz > 27 dB	C.F. ± 1.5 MHz > 27 dB	C.F. ± 1.0 MHz > 27 dB
Return Loss (VSWR)	> 26 dB (1.11)	> 26 dB (1.11)	> 26 dB (1.11)
Isolation Between Inputs	> 30 dB	> 30 dB	> 30 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)

⁽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