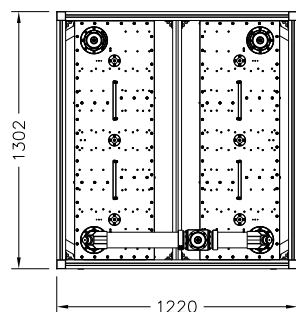
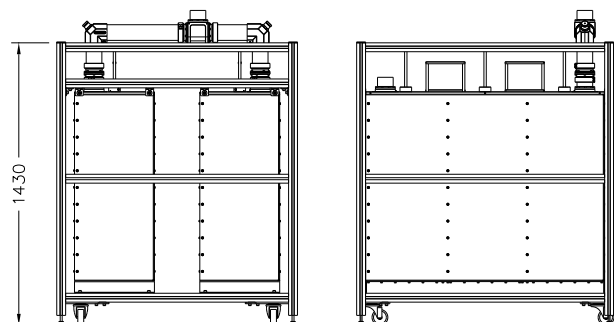
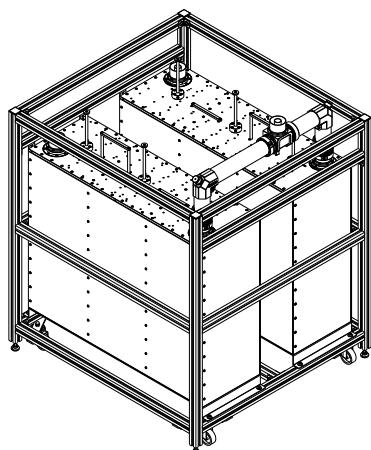


# FM 3-Pole 560 mm Starpoint Combiner

## SF3P560F



### FEATURES

- Up to 4-Channel Combination
- Full-Band Tunability
- 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-SF3P560F/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	≥ 1.2 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 <sup>(1)</sup>	n=2: 1220x1302x1430 mm / 195 kg n=3: 1220x264x1430 mm / 295 kg n=4: 1220x2604x1430 mm / 385 kg
Operating Position	As shown in drawing only
Links	1+5/8" Rigid Line
Connectors <sup>(2)</sup>	<b>2x 64 mm Inputs</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 <b>1x 100 mm Output</b> 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 <sup>(2)</sup>	O-RMX.04 45mm Modular Frame System O-HTC.14 Heat Sinks O-FTC.11 Forced Air Cooling O-LTC.14 Liquid Cooling O-MTS.01 70 °C (158 °F) N.C. Thermostwitch
Liquid Cooling Interface <sup>(2)</sup> / Coolant	3/8" NPT Male / Water and Antifreeze

TUNING DATA <sup>(2)</sup>	2.0		1.4		1.0	
	Frequency Spacing (Bandwidth)	2.0 MHz	1.4 MHz	1.0 MHz	Frequency Spacing (Bandwidth)	1.0 MHz
Tuning Code	T-3F.01		T-3F.04		T-3F.05	
Max RMS Input Power <sup>(3)</sup>		(108 MHz)	(108 MHz)	(108 MHz)		(108 MHz)
	Default	27.8 kW	Default	20.1 kW	Default	14.0 kW
	Heat Sinks	33.3 kW	Heat Sinks	24.1 kW	Heat Sinks	16.9 kW
	Forced Air Cooling	41.6 kW	Forced Air Cooling	30.1 kW	Forced Air Cooling	22.1 kW
	Liquid Cooling <sup>(5)</sup>	41.6 kW	Liquid Cooling <sup>(5)</sup>	30.1 kW	Liquid Cooling <sup>(5)</sup>	22.1 kW
Insertion Loss		(87.5 MHz) (108 MHz)	(87.5 MHz) (108 MHz)	(87.5 MHz) (108 MHz)	(87.5 MHz) (108 MHz)	(108 MHz)
	C.F.	< 0.10 dB < 0.11 dB	C.F.	< 0.14 dB < 0.15 dB	C.F.	< 0.20 dB < 0.21 dB
	±150 kHz	< 0.11 dB < 0.11 dB	±150 kHz	< 0.15 dB < 0.16 dB	±150 kHz	< 0.22 dB < 0.23 dB
		+ 0.01·(n+1) dB		+ 0.01·(n+1) dB		+ 0.01·(n+1) dB
Harmonic Attenuation	> 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. ± 1.4 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	

<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)  
<sup>(5)</sup> Glycol 30%, Liquid temp. 45 °C (113 °F), Liquid flow 6 l/min (1.6 gal/min)