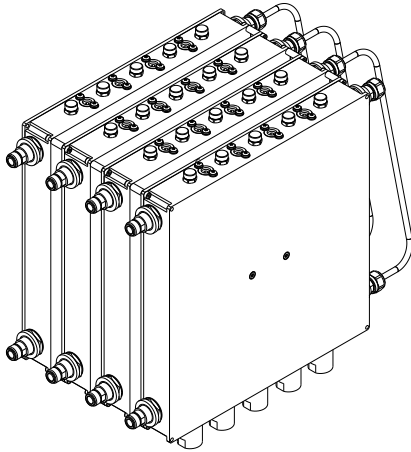


VHF B.III 5-Pole 30 mm Manifold Combiner

MX5P30B



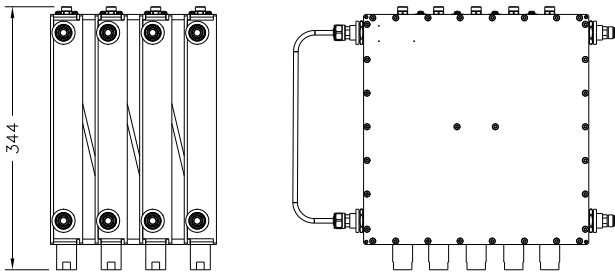
FEATURES

- Adjacent-Channel Combination
- Up to 9-Channel Combination
- Full-Band Tunability
- DC-Short
- 10-Year Warranty



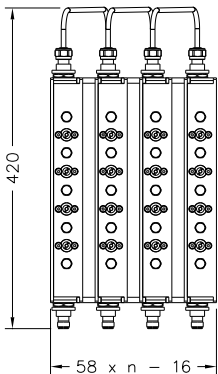
OPTIONS

- Rack-Shelf ⁽⁷⁾



SPECIFICATIONS

Code / Revision	B-MX5P30B/n / A
	<i>n: Number of Filtered Inputs</i>
No. of Poles / Cavity Size	5-Pole / 30 mm
Frequency Range / Bandwidth	174-240 MHz / 6-8 MHz
Temperature Stability	< 4 kHz/K
Max Operating Temperature (Body)	65°C (149°F)
Environmental Conditions	-5 to +55°C (+23 to +131°F), IP60
Dimensions / Weight ⁽¹⁾	(58·n-16)x420x344 mm / 5.1·n kg
Links	SM250 Cable (N Female)
Connectors	N Female (Fixed)
Options ⁽²⁾	O-KC2.01 2U rack, w/ panel and h. (n≤2) ⁽⁷⁾
	O-KC5-01 5U rack, w/ panel and h. (n≤4) ⁽⁷⁾



TUNING DATA ⁽²⁾

	DVB-T2 / DVB T		ATSC 3.0 / ATSC 1.0		ISDB-T	
Mask (Bandwidth)	Non Critical <10 W (7 MHz)		Simple, Stringent ⁽¹⁸⁾ (6 MHz)		Non Critical ⁽¹⁸⁾ (6 MHz)	
Tuning Code	T-5P.02		T-5P.04		T-5P.05	
Max RMS Input Power ^(3,4)	Default	(230 MHz) 130 W	Default	(216 MHz) 110 W	Default	(216 MHz) 110 W
Max RMS Output Power ⁽³⁾	900 W		900 W		900 W	
Insertion Loss ⁽⁴⁾		(174 MHz) (230 MHz)		(174 MHz) (216 MHz)		(174 MHz) (216 MHz)
	C.F.	< 0.86 dB < 0.86 dB	C.F.	< 1.00 dB < 1.00 dB	C.F.	< 1.00 dB < 1.00 dB
	±3.40 MHz	< 1.37 dB < 1.37 dB	±2.916 MHz	< 1.58 dB < 1.58 dB	±2.79 MHz	< 1.50 dB < 1.50 dB
	±3.33 MHz	< 1.28 dB < 1.28 dB	±2.69 MHz	< 1.42 dB < 1.42 dB		
	+ 0.06·(n-1) dB		+ 0.06·(n-1) dB		+ 0.06·(n-1) dB	
Selectivity	C.F. ± 5.25 MHz	> 8 dB	C.F. ± 6.0 MHz	> 22 dB	C.F. ± 4.5 MHz	> 8 dB
	C.F. ± 10.5 MHz	> 36 dB	C.F. ± 9.0 MHz	> 36 dB	C.F. ± 9.0 MHz	> 36 dB
Harmonic Attenuation ⁽⁶⁾	> 50 dB up to 620 MHz		> 50 dB up to 620 MHz		> 50 dB up to 620 MHz	
Return Loss (VSWR) ⁽⁴⁾	> 24 dB (1.14)		> 24 dB (1.14)		> 24 dB (1.14)	
Isolation Between Inputs ⁽⁴⁾	> 30 dB		> 30 dB		> 30 dB	
Group Delay Variation ⁽⁴⁾	< 60 ns		< 60 ns		< 60 ns	

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

⁽⁴⁾ Non-adjacent channels ⁽⁶⁾ Up to 3rd harmonic atten. with LP/LC Series Lowpass Filter ⁽⁷⁾ Reduced operating power ⁽¹⁸⁾ Can be achieved with a suitable TX spectrum