

DAB 6-Pole 200 mm Balanced Filter

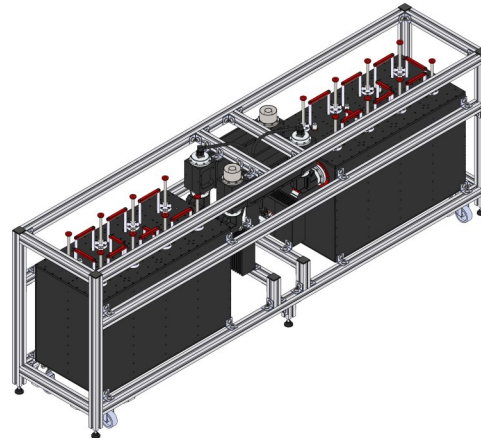
BF6D200R

FEATURES

- Constant Impedance Configuration
- *DualCross*: Double Cross-Coupling
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- 10-Year Warranty

OPTIONS

- Heat Sinks
- Forced Air Cooling
- Liquid Cooling




T-DMB

SPECIFICATIONS

Code / Revision	A-BF6D200R / A		
No. of Poles / Cavity Size	6-Pole <i>DualCross</i> / 200 mm		
Frequency Range / Bandwidth	174-240 MHz / 1.54 MHz		
Temperature Stability	< 1.0 kHz/K		
Max Operating Temperature (Body)	65 °C (149 °F)		
Environmental Conditions	-5 to +55 °C (+23 to +131 °F), IP60		
Dimensions / Weight ⁽¹⁾	2120x539x930 mm / 210 kg		
Output Monitor Probe	SMA Female		
Connectors (Input, Output) ⁽²⁾	2x 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-HTF.08 Heat Sinks O-FTF.05 Forced Air Cooling O-LTF.08 Liquid Cooling O-MTS.01 70 °C (158 °F) N.C. Thermal Switch		
Liquid Cooling Interface ⁽²⁾ / Coolant	3/8" NPT Male / Water and Antifreeze		
TUNING	Case 1 (Critical)		Case 2 (Uncritical)
Bandwidth	1.54 MHz		1.54 MHz
Tuning Code	T-6DR.01		T-6DR.03
Max RMS Input Power ⁽³⁾	(230 MHz)	(230 MHz)	(230 MHz)
	Default	5.0 kW	Default
	Heat Sinks	6.2 kW	Heat Sinks
	Forced Air Cooling	12.4 kW	Forced Air Cooling
	Liquid Cooling ⁽⁵⁾	10.5 kW	Liquid Cooling ⁽⁵⁾
Efficiency (Typ.)	86%		89%
Insertion Loss	(174 MHz) (230 MHz)	(174 MHz) (230 MHz)	(174 MHz) (230 MHz)
	C.F. < 0.44 dB < 0.52 dB	C.F. < 0.40 dB < 0.47 dB	C.F. < 0.40 dB < 0.47 dB
	±0.77 MHz < 1.10 dB < 1.30 dB	±0.77 MHz < 0.80 dB < 0.80 dB	±0.77 MHz < 0.80 dB < 0.80 dB
Selectivity	C.F. ± 0.97 MHz > 15 dB	C.F. ± 0.97 MHz > 4 dB	C.F. ± 0.97 MHz > 4 dB
	C.F. ± 1.75 MHz > 45 dB	C.F. ± 1.75 MHz > 32 dB	C.F. ± 1.75 MHz > 32 dB
	C.F. ± 2.20 MHz > 45 dB	C.F. ± 2.20 MHz > 45 dB	C.F. ± 2.20 MHz > 45 dB
	C.F. ± 3.0 MHz > 45 dB	C.F. ± 3.0 MHz > 45 dB	C.F. ± 3.0 MHz > 45 dB
	+ 0.05 dB	+ 0.05 dB	+ 0.05 dB
Harmonic Attenuation ⁽⁶⁾	> 42 dB up to 500 MHz		> 42 dB up to 500 MHz
Return Loss (VSWR)	> 26 dB (1.11)		> 26 dB (1.11)
Group Delay Variation	< 950 ns		< 500 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)

⁽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