

## DAB 8-Pole 200 mm Balanced Filter

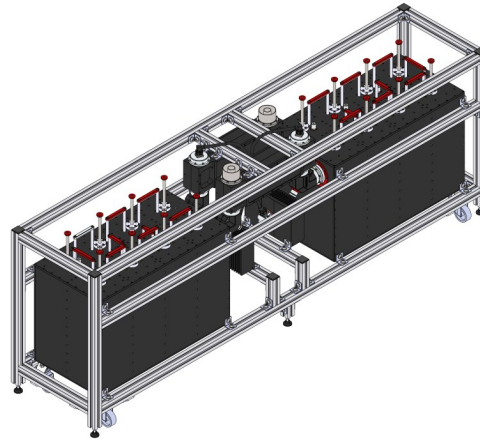
BF8D200R

## 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-BF8D200R / A
No. of Poles / Cavity Size	8-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 <sup>(1)</sup>	2532x539x930 mm / 260 kg
Output Monitor Probe	SMA Female
Connectors (Input, Output) <sup>(2)</sup>	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 <sup>(2)</sup>	O-HTF.09 Heat Sinks O-FTF.06 Forced Air Cooling O-LTF.09 Liquid Cooling O-MTS.01 70 °C (158 °F) N.C. Thermal Switch
Liquid Cooling Interface <sup>(2)</sup> / Coolant	3/8" NPT Male / Water and Antifreeze

TUNING		Case 3	
Bandwidth		1.54 MHz	
Tuning Code		T-8DR.01	
Max RMS Input Power <sup>(3)</sup>			(230 MHz)
		Default	5.4 kW
		Heat Sinks	6.7 kW
		Forced Air Cooling	13.4 kW
		Liquid Cooling <sup>(5)</sup>	11.3 kW
Efficiency (Typ.)		78%	
Insertion Loss		(174 MHz)	(230 MHz)
		C.F. < 0.57 dB	< 0.63 dB
		±0.77 MHz < 0.68 dB	< 0.76 dB
Selectivity		C.F. ± 0.97 MHz	> 15 dB
		C.F. ± 1.75 MHz	> 45 dB
		C.F. ± 2.20 MHz	> 65 dB
		C.F. ± 3.0 MHz	> 65 dB
			+ 0.05 dB
Harmonic Attenuation <sup>(6)</sup>		> 42 dB up to 500 MHz	
Return Loss (VSWR)		> 26 dB (1.11)	
Group Delay Variation		< 1000 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) <sup>(6)</sup> Up to 3<sup>rd</sup> harmonic atten. with LP/LC Series Lowpass Filter