

VHF B.I 6-Pole 300 mm Bandpass Filter

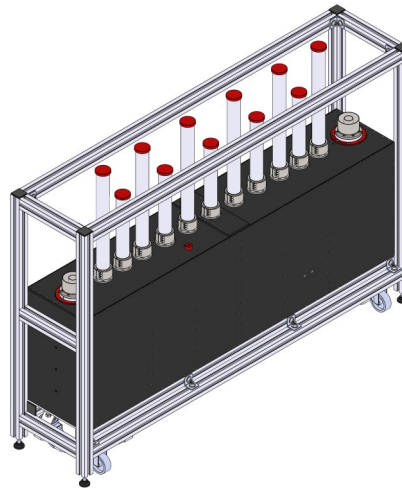
HE6E300A

FEATURES

- Cross Coupling
- EVA-Mode Design
- Full-Band Tunability
- Temperature Stabilization
- DC-Short
- Output Monitor Probe
- Modular Connector System
- Frame
- 10-Year Warranty

OPTIONS

- Forced Air Cooling
- Liquid Cooling



SPECIFICATIONS

Code / Revision	A-HE6E300A / A		
No. of Poles / Cavity Size	6-Pole / 300 mm		
Frequency Range / Bandwidth	54-88 MHz / 6 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⁾	1720x390x1150 mm / 125 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-FHE.01 Forced Air Cooling O-LHE.01 Liquid Cooling		
Liquid Cooling Interface ⁽²⁾ / Coolant	3/8" NPT Male / Water and Antifreeze		
TUNING		ATSC 3.0 / ATSC 1.0	
Mask		Stringent, Full Service	
Tuning Code		T-6E.04	
Max RMS Input Power ⁽³⁾		(88 MHz) Default Forced Air Cooling Liquid Cooling ⁽⁵⁾	 15.1 kW 20.0 kW 18.3 kW
Efficiency (Typ.)		96%	
Insertion Loss		(54 MHz) (88 MHz) C.F. < 0.13 dB < 0.13 dB ±2.916 MHz < 0.22 dB < 0.22 dB ±2.69 MHz < 0.18 dB < 0.18 dB	
Selectivity		C.F. ± 3.5 MHz > 3 dB C.F. ± 6.0 MHz > 35 dB C.F. ± 9.0 MHz > 65 dB	
Harmonic Attenuation ⁽⁶⁾		> 50 dB up to 230 MHz	
Return Loss (VSWR)		> 25 dB (1.12)	
Group Delay Variation		< 200 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