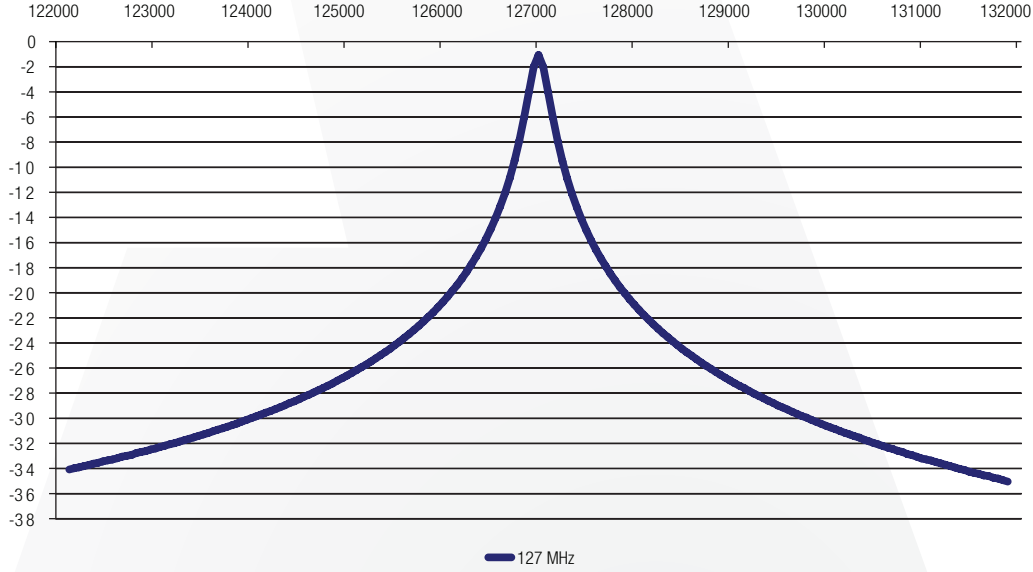




Mavitek MVD series band pass filters are designed and produced for the 117-138MHz band. MVD series cavity filters are made of blue enamel painted copper. The connectors are silver plated and PTFE insulated. MVD series band pass filters can be ordered either in non-elongating tuning rod (MVD127P8NE) or standard tuning rod configuration (MVD127P8)

MVD series perform flawlessly under extreme conditions like -30°C to $+60^{\circ}\text{C}$ under 350Watts (1dB IS) or 250W (2dB IS) maximum RF input power. They are the ideal choice ATC systems. MVD series filters will be factory tuned to the frequencies required by the customer and shipped ready for installation. Field tuning for changing customer requirements is also user friendly using the invar tuning rod.

- ▲ Copper Cavities
- ▲ Silver Plated Connectors
- ▲ High Stability and Sensitivity
- ▲ Designed for Extreme Conditions



Model No	MVK127P8	MVK127P8NE
Electrical Specifications		
Frequency Band	117-138MHz	
Maximum Power Input	350W (1dB attenuation)	
	250W (2dB attenuation)	
Insertion Loss Tx/Rx-Ant.	Adjustable between 0.5dB and 3.0dB	
VSWR (Max.)	1.5:1 or better	
Impedance	50Ω	
Isolation	±125kHz	4.0dB
	±250kHz	8.5dB
	±500kHz	14.0dB
	±1MHz	20.0dB
	±2.5MHz	28.0dB
	±5MHz	34.0dB
(At 127MHz with 1dB insertion loss and ±0.5dB tolerance)		
Return Loss	-18dB (at 127MHz and 1dB insertion loss)	
Mechanical Specifications		
Temperature Range	-30°C to +60°C	
No of Cavities/Diameter	1 / 200mm	
Connector Type	"N" Female	
Color/Paint	Blue/Glossy Enamel	
Weight (Approx.)	5.5kg / 12.2 lbs	
Dimensions (Radius x Height)	200 x 800mm (projections excluded)	
Mounting	Single Cavity / 19" horizontal or vertical rack mount option	

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