



High performance, reliable VHF cavity combining system for 118-137MHz VHF Airband.

19" Rack mounting design; 6U for 2-channel, 10U for 3-channel and 12U for 4-channel cavity combiner.

Up to 10MHz isolation bandwidth.

200mm aluminium cavities.

High isolation of over >75dB between output ports with dual isolators (@ >150kHz spacing).

150 Watt RF input capability.

N-Type input and output connectors, other types available on request.

Dual isolators with removable loads for testing and inspection.

▲ Aluminium Cavities

---

▲ N-Type Connectors

---

▲ 19" Rack Mounting Design

---

Specifications				
Frequency Range	118-137MHz (in 3MHz sub-bands)			
Number of Channels	2 / 3 / 4			
Isolation Tx-Tx Spacing >150kHz	>75dB ( >80dB with triple isolators)			
Isolation Bandwidth	3MHz			
Nominal Impedance	50 Ohms			
Maximum Input Power	150 Watt			
VSWR	<1.5:1			
Minimum Channel Spacing	>75kHz			
Insertion Loss (dB)	Spacing	2 Ch.	3 Ch.	4 Ch.
	150kHz	<-2.8	<-3.0	<-3.2
	250kHz	<-2.5	<-2.5	<-2.5
	500kHz	<-2.0	<-2.0	<-2.0
Frequency Stability	1.8ppm per degree °C			
RF Connectors	Female N-Type as standard (other types available optionally)			
Mounting	19" Rack 2Ch:6U 3Ch:10U 4Ch:12U			
Weight (approx.)	2 Channel: 13kg 3 Channel: 19kg 4 Channel: 25kg			
Operating Temperature Range	-25°+60°C			
Order Designations	2 Channel 118-137MHz: MCCV8-127-2 3 Channel 118-137MHz: MCCV8-127-3 4 Channel 118-137MHz: MCCV8-127-4			

**Notes:** 1. All tests are performed at +25°C.  
2. Due to the nature of magnets enclosed inside the isolators, insertion loss and isolation values deteriorate at extreme temperatures.

**Telsan Telsiz San. ve Tic. A.Ş.**

Seyrantepe Mah. Yayıncılar Sok. No:5 Kağıthane 34418 İstanbul Türkiye

T: +90 212 2122232 F: +90 212 2126899

[www.mavitek.com](http://www.mavitek.com)