MAVITEK
RF ENGINEERING

136-174MHz

2 / 3 / 4 CHANNEL 250 mm CAVITY COMBINER MCCV10 Series

High performance, reliable VHF cavity combining system for 136-174MHz VHF band.

19” Rack mounting design; 11U for 2-channel, 15U for 3-channel and 18U for 4-channel cavity combiner.

Up to 10MHz isolation bandwitdh without needing for isolator adjustment or change.

250mm 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.

Mavitek blue or customer RAL code electrostatic powder painted to match your cabinet design.

- Aluminium Cavities
- N-Type Connectors
- 19” Rack Mounting Design

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Specifications	
Frequency Range	136-174MHz (in 10MHz sub-bands)
Number of Channels	2 / 3 / 4
Isolation Tx-Tx Spacing >150kHz	>75dB
Isolation Bandwidth	Upto 10MHz
Nominal Impedance	50 Ohms
VSWR	<1.5:1
Maximum Input Power	150 Watt
Minimum Channel Spacing	>75kHz
Insertion Loss (at 150kHz channel spacing)	2 Channel: <2.3dB 3 Channel: <2.7dB 4 Channel: <3.1dB
Frequency Stability	1ppm per degree ˚C
RF Connectors	Female N-Type as standard (other types available optionally)
Mounting	19" Rack 2Ch:11U 3Ch:15U 4Ch:18U
Weight (approx.)	2 Channel: 15kg 3 Channel: 21kg 4 Channel: 27kg
Operating Temperature Range	-25˚+60˚C
Order Designations	2 Channel 136-148MHz: MCCV10-143-2 2 Channel 148-158MHz: MCCV10-153-2 2 Channel 158-168MHz: MCCV10-163-2 2 Channel 168-174MHz: MCCV10-171-2 3 Channel 136-148MHz: MCCV10-143-3 3 Channel 148-158MHz: MCCV10-153-3 3 Channel 158-168MHz: MCCV10-163-3 3 Channel 158-174MHz: MCCV10-171-3 4 Channel 136-148MHz: MCCV10-143-4 4 Channel 148-158MHz: MCCV10-153-4 4 Channel 158-168MHz: MCCV10-163-4 4 Channel 168-174MHz: MCCV10-171-4

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.

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