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HCMR150-4-DU

Hybrid 4 channel VHF TX/RX Combiner & duplexer

 $\rm HCMR150-4-DU$ series is a VHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 4 VHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" tray, 500 mm depth (3HU).
- Tuned to customer specified frequencies, need to be specified when ordering.

VHFTX/RX Hybrid Combiner & duplexer - 4 Channels

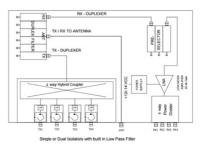
• Full bandwidth.

Туре

144 - 160 MHz Frequency 160 - 175 MHz VSWR ≤ 1.5:1 Impedance 50 Ohm Max. Input Power 50 Watts (Per channel) Single isolator: < 8.6 dB Insertion Loss (TX) Dual isolator: < 8.9 dB DU-5: 1.5 MHz TX-TX spacing DU-10: 2.0 MHz DU-5: 4 - 7 MHz TX-RX spacing DU-10: 8 -12 MHz TX-TX spacing <0.4 MHz :> 80 dB Isolation RX-TX TX-TX spacing <2.0 MHz :> 60 dB RX-RX spacing <0.4 MHz :> 80 dB Isolation TX-RX RX-RX spacing <2.0 MHz :> 60 dB Single isolator: > 50 dB Isolation TX - TX Dual isolator: > 70 dB Isolation RX-RX >20 dB Bandwidth (RX) Approx. 3 MHz (In band) Gain RX: 20±1.0 dB LNA Noise Figure < 2.0 dB 100-240 V; 50/60 Hz (Max. 7W) Power Supply

ELECTRICAL SPECIFICATIONS





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Datasheet

MECHANICAL SPECIFICATIONS

Color	Black Grey (RAL7021)
Dimension	482.6 x 133.5 x 500 mm (W x H x L)
Weight	Single isolator: 9.6 kg Dual isolator: 11.2 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

ORDERING INFORMATION

55142-013	HCMR150-4S-L-5 144-160 MHZ 4CH x 50 W Single Isolator + DU-5
55144-023	HCMR150-4S-L-10 144-160 MHZ 4CH x 50 W Single Isolator + DU-10
55142-033	HCMR150-4S-H-5 160-175 MHZ 4CH x 50 W Single Isolator + DU-5
55144-043	HCMR150-4S-H-10 160-175 MHZ 4CH x 50 W Single Isolator + DU-10
55142-053	HCMR150-4D-L-5 144-160 MHZ 4CH x 50 W Dual Isolator + DU-5
55144-063	HCMR150-4D-L-10 144-160 MHZ 4CH x 50 W Dual Isolator + DU-10
55142-073	HCMR150-4D-H-5 160-175 MHZ 4CH x 50 W Dual Isolator + DU-5
55144-083	HCMR150-4D-H-10 160-175 MHZ 4CH x 50 W Dual Isolator + DU-10
Note	Power cable is not included

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