

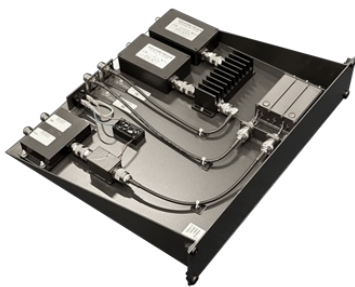
Datasheet

HCMR150-2-DUPT

Hybrid 2 channel VHF TX/RX Combiner and Duplex Filter HS

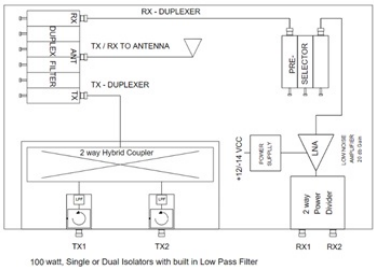
HCMR150-2-DUPT is a VHF TX/RX hybrid combiner and duplexer with single or dual isolators used for combining 2 VHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" trays. Two of 2HU, 400 mm depth.
- Tuned to customer specified frequencies, need to be specified when ordering.
- Full bandwidth.
- 100 W power handling.
- Combiner with high spec. external duplexer.



ELECTRICAL SPECIFICATIONS

Type	Hybrid 2 channel VHF TX/RX Combiner and Duplex Filter HS
Frequency	144 - 162 MHz 158 - 175 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohm
Max. Input Power	100 Watts (Per channel)
Insertion Loss (TX)	Single isolator: < 4.8 dB Dual isolator: < 5.1dB
TX-TX spacing	DUPT-5: ≤ 1.5 MHz DUPT-10: ≤ 2.0 MHz
TX-RX spacing	DUPT-5: 4 - 7 MHz DUPT-10: 8 -12 MHz
Isolation RX-TX	TX-TX spacing <0.4 MHz :> 90dB TX-TX spacing <2.0 MHz :> 70dB
Isolation TX-RX	RX-RX spacing <0.4 MHz :> 90dB RX-RX spacing <2.0 MHz :> 70dB
Isolation TX - TX	Single: > 50 dB Dual: > 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
Power Supply	100-240 V; 50/60 Hz (Max. 7W)



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## MECHANICAL SPECIFICATIONS

Color	Black Grey (RAL7021)
Dimension	Two of: 482.6 x 89 x 400 mm (W x H x L)
Weight	Single isolator: 7.1 kg Dual isolator: 7.9 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

## ORDERING INFORMATION

55122-113	HCMR150-2S-L-5-150 144-162 MHZ 2CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55124-123	HCMR150-2S-L-10-150 144-162 MHZ 2CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55122-133	HCMR150-2S-H-5-150 158-175 MHZ 2CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55124-143	HCMR150-2S-H-10-150 158-175 MHZ 2CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55122-153	HCMR150-2D-L-5-150 144-162 MHZ 2CH x 100 W Dual Isolator + DUPT-5 2 x 2HU
55124-163	HCMR150-2D-L-10-150 144-162 MHZ 2CH x 100 W Dual Isolator + DUPT-10 2 x 2HU
55122-173	HCMR150-2D-H-5-150 158-175 MHZ 2CH x 100 W Dual Isolator + DUPT-5
55124-183	HCMR150-2D-H-10-150 158-175 MHZ 2CH x 100 W Dual Isolator + DUPT-10
Note	Power cable not included