

## Datasheet

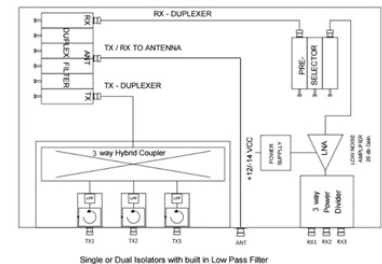
1 / 2

# HCMR150-3-DUPT

## Hybrid 3 channel VHF TX/RX Combiner & duplexer HS

HCMR150-3-DUPT series is a VHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 3 VHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" tray (2HU - DUPT-R).
- Tuned to customer specified frequencies, need to be specified when ordering.
- Full bandwidth.
- 100W power handling.
- Combiner with high spec. external duplexer.



## ELECTRICAL SPECIFICATIONS

Type	VHF TX/RX Hybrid Combiner & duplexer - 3 Channels
Frequency	144 - 162 MHz 158 - 175 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohm
Max. Input Power	100 Watts (Per channel)
Insertion Loss	Single isolator: < 6.9 dB Dual isolator: < 7.2dB
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 isolator: > 50 dB 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
Power Supply	100-240 V; 50/60 Hz (Max. 7W)

## Datasheet

2 / 2

## MECHANICAL SPECIFICATIONS

Color	Black Grey (RAL7021)
Dimension	Two units: 482.6 x 89.0 x 300 mm (W x H x L)
Weight	Single isolator: 9.3 kg Dual isolator: 10.5 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

## ORDERING INFORMATION

55132-113	HCMR150-3S-L-5-150 144-162 MHz 3CH x 100 W Single Isolator + DUPT-5
55134-123	HCMR150-3S-L-10-150 144-162 MHz 3CH x 100 W Single Isolator + DUPT-10
55132-133	HCMR150-3S-H-5-150 158-175 MHz 3CH x 100 W Single Isolator + DUPT-5
55134-143	HCMR150-3S-H-10-150 158-175 MHz 3CH x 100 W Single Isolator + DUPT-10
55132-153	HCMR150-3D-L-5-150 144-162 MHz 3CH x 100 W Dual Isolator + DUPT-5
55134-163	HCMR150-3D-L-10-150 144-162 MHz 3CH x 100 W Dual Isolator + DUPT-10
55132-173	HCMR150-3D-H-5-150 158-175 MHz 3CH x 100 W Dual Isolator + DUPT-5
55134-183	HCMR150-3D-H-10-150 158-175 MHz 3CH x 100 W Dual Isolator + DUPT-10
Power	Cable not included