

## Datasheet

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## HCMR450-2-DUPT

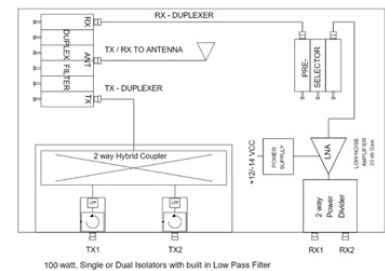
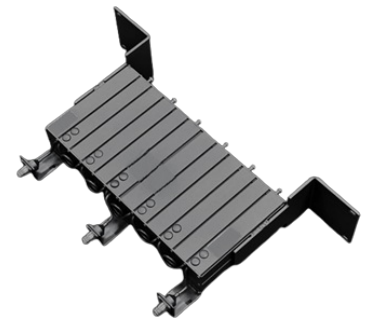
## Hybrid 2 channel UHF TX/RX Combiner and Duplex Filter HS

HCMR450-2-DUPT series is a UHF TX/RX hybrid combiner and duplexer with single or dual isolators used for combining 2 UHF 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.
- 100w power handling.
- Combiner with high spec. external duplexer.

## ELECTRICAL SPECIFICATIONS

Type	Hybrid 2 channel UHF TX/RX Combiner and Duplex Filter HS
Frequency	400 - 440 MHz 440 - 475 MHz
VSWR	$\leq 1.5:1$
Impedance	50 Ohm
Max. Input Power	100 Watts (Per channel)
Insertion Loss (TX)	Single Isolator: < 4.9 dB Dual Isolator: < 5.2 dB
TX-TX spacing	DUPT-5: $\leq 1.5$ MHz DUPT-10: $\leq 2.0$ MHz
TX-RX spacing	DUPT-5: 4 - 7 MHz DUPT-10: 8 -12 MHz
Isolation RX-TX	TX-TX spacing <0.5 MHz :> 90dB TX-TX spacing <2.0 MHz :> 70 dB
Isolation TX-RX	RX-RX spacing <0.5 MHz :> 90 dB RX-RX spacing <2.0 MHz :> 70 dB
Isolation TX - TX	Single Isolator: > 50 dB Dual Isolator: > 70 dB
Isolation RX-RX	>20 dB
Bandwidth (RX)	Approx. 5 MHz
Gain	RX: $20 \pm 1.0$ 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
Dimension	Two of: 482.6 x 89 x 400 mm (W x H x L)
Weight	Single isolator: 7.4 kg Dual isolator: 7.8 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

## ORDERING INFORMATION

55422-113	HCMR450-2S-L-5-150 400-440 MHZ 2CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55424-123	HCMR450-2S-L-10-150 400-440 MHZ 2CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55422-133	HCMR450-2S-H-5-150 440-475 MHZ 2CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55424-143	HCMR450-2S-H-10-150 440-475 MHZ 2CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55422-153	HCMR450-2D-L-5-150 400-440 MHZ 2CH x 100 W Dual Isolator + DUPT-5 2 x 2HU
55424-163	HCMR450-2D-L-10-150 400-440 MHZ 2CH x 100 W Dual Isolator + DUPT-10 2 x 2HU
55422-173	HCMR450-2D-H-5-150 440-475 MHZ 2CH x 100 W Dual Isolator + DUPT-5 2 x 2HU
55424-183	HCMR450-2D-H-10-150 440-475 MHZ 2CH x 100 W Dual Isolator + DUPT-10 2 x 2HU
Note	Power cable not included