

Datasheet

HCMR450-2-DU

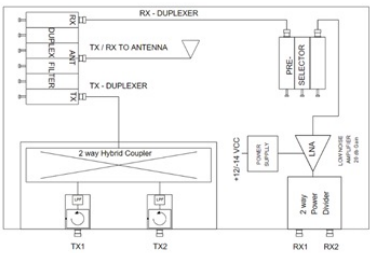
2CH UHF 400-475 MHz HYBRID combiner & duplexer

HCMR450-2-DU series is a UHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 2 UHF 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.
- Full bandwidth.

ELECTRICAL SPECIFICATIONS

Type	UHF TX/RX Hybrid Combiner & duplexer - 2 Channels
Frequency	400 - 440 MHz 440 - 475 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohm
Max. Input Power	50 Watts (Per channel)
Insertion Loss (TX)	Single Isolator: < 4.9 dB Dual Isolator: < 5.2 dB
TX-TX spacing	DU-5: 1.5 MHz DU-10: 2.0 MHz
TX-RX spacing	DU-5: 4 - 7 MHz DU-10: 8 -12 MHz
Isolation RX-TX	TX-TX spacing <0.5 MHz :> 80dB TX-TX spacing <2.0 MHz :> 60 dB
Isolation TX-RX	RX-RX spacing <0.5 MHz :> 80 dB RX-RX spacing <2.0 MHz :> 60 dB
Isolation TX - TX	Single Isolator: > 50 dB Dual Isolator: > 70 dB
Isolation RX-RX	> 20dB
Bandwidth (RX)	Approx. 5 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
Dimension	482.6 x 133.5 x 500 mm (W x H x L)
Weight	Single Isolator: 5.9 kg Dual Isolator: 6.3 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

ORDERING INFORMATION

55422-013	HCMR450-2S-L-5 400-440 MHZ 2CH x 50 W Single Isolator + DU-5
55424-023	HCMR450-2S-L-10 400-440 MHZ 2CH x 50 W Single Isolator + DU-10
55422-033	HCMR450-2S-H-5 440-475 MHZ 2CH x 50 W Single Isolator + DU-5
55424-043	HCMR450-2S-H-10 440-475 MHZ 2CH x 50 W Single Isolator + DU-10
55422-053	HCMR450-2D-L-5 400-440 MHZ 2CH x 50 W Dual Isolator + DU-5
55424-063	HCMR450-2D-L-10 400-440 MHZ 2CH x 50 W Dual Isolator + DU-10
55422-073	HCMR450-2D-H-5 440-475 MHZ 2CH x 50 W Dual Isolator + DU-5
55424-083	HCMR450-2D-H-10 440-475 MHZ 2CH x 50 W Dual Isolator + DU-10
Note	Power cable not included