

HCMR450-4/CR

Hybrid 4 channel UHF TX/RX Combiner

HCMR450-4 series is a UHF TX/RX hybrid combiner with single or dual isolators used with two antennas, one RX and one TX or to be used with external duplex filter.

- Standard EIA 19" tray, 400 mm depth and 2HU in a closed cabinet.
- Comes with an integrated power indicating light emitting diode (LED)
- Integrated power supply, 100-240 VAC; 50/60 Hz
- Tuned to customer specified frequencies, needs to be specified when ordering
- Option: Redundant power supply can be provided!

ELECTRICAL SPECIFICATIONS

Type	Hybrid UHF TX/RX Combiner - 4 Channels
Frequency	T: 380 - 420 MHz L: 400- 440 MHz H: 440 - 475 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohm
Max. Input Power	100 Watts (per channel)
Insertion Loss (TX)	Single Isolator: < 7.8 dB Dual Isolator: < 8.1 dB
Isolation TX - TX	Single Isolator: > 50 dB Dual Isolator: > 70 dB
Isolation RX-RX	>20 dB
Bandwidth (RX)	Approx. 5 MHz (Adjustable in band)
LNA Gain	RX: 20±1.0 dB
LNA Noise Figure	< 2.0 dB
Power Supply	100-240 V; 50/60 Hz (Max. 7W)



Datasheet

2 / 3

MECHANICAL SPECIFICATIONS

Color	Black gray (RAL7021)
Dimension	482.6 x 89.0 x 400 mm (W x H x L)
Weight	HCMR450-4S: 9.3 kg HCMR450-4D: 10.3 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

ORDERING INFORMATION

55440-003T/CR	HCMR450-4ST 380-420 MHZ 4CH x 100 W Single Isolator 2HU
55440-103T/CR	HCMR450-4DT 380-420 MHZ 4CH x 100 W Dual Isolator 2HU
55440-003L/CR	HCMR450-4SL 400-440 MHZ 4CH x 100 W Single Isolator 2HU
55440-103L/CR	HCMR450-4DL 400-440 MHZ 4CH x 100 W Dual Isolator 2HU
55440-003H/CR	HCMR450-4SH 440-475 MHZ 4CH x 100 W Single Isolator 2HU
55440-103H/CR	HCMR450-4DH 440-475 MHZ 4CH x 100 W Dual Isolator 2HU
Note	Power cable is not included

