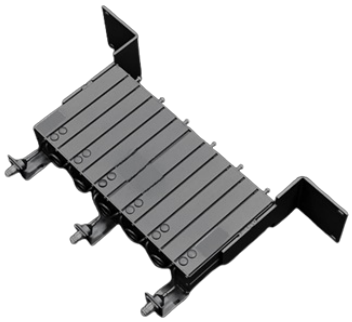
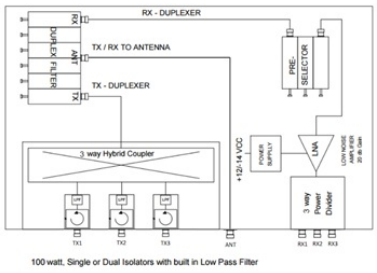
HCMR450-3-DUPT

Hybrid 3 channel UHF TX/RX Combiner and Duplex Filter HS

HCMR450-3-DUPT series is a UHF TX/RX hybrid combiner and duplexer with single or dual isolators used for combining 3 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.
- Full bandwidth.
- 100 W power.
- Combiner with high spec. external duplexer.





100 watt, Single or Dual Isolators with built in Low Pass Filter

ELECTRICAL SPECIFICATIONS

Type	Hybrid 3 channel UHF TX/RX Combiner and Duplex Filter HS
Frequency	400 - 440 MHz 440 - 475 MHz
VSWR	≤ 1.5:1
Impedance	50 Ohm
Max. Input Power	100 Watts (Per channel)
Insertion Loss (TX)	Single Isolator: < 6.6 dB Dual Isolator: < 6.9 dB
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. 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)

Disclaimer: Here you find all products for a complete antenna system. One-stop supplier with focus on high quality products produced in EU. No matter which type of antenna you are searching for, you will find it here. Every effort has been made to ensure the accuracy of the information in this product sheet. Scan Antenna reserves the right to introduce changes to this information without notice. All rights reserved.

MECHANICAL SPECIFICATIONS

Color	Black
Dimension	Two units: 482.6 x 89.0 x 300 mm (W x H x L)
Weight	Single isolator: 9.5 kg Dual isolator: 10.1 kg
Connector	Type N-female
Serial no.	On product label
Operating temperature	-20° to +60°C

ORDERING INFORMATION

55432-113	HCMR450-3S-L-5-150 400-440 MHZ 3CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55434-123	HCMR450-3S-L-10-150 400-440 MHZ 3CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55432-133	HCMR450-3S-H-5-150 440-475 MHZ 3CH x 100 W Single Isolator + DUPT-5 2 x 2HU
55434-143	HCMR450-3S-H-10-150 440-475 MHZ 3CH x 100 W Single Isolator + DUPT-10 2 x 2HU
55432-153	HCMR450-3D-L-5-150 400-440 MHZ 3CH x 100 W Dual Isolator + DUPT-5 2 x 2HU
55434-163	HCMR450-3D-L-10-150 400-440 MHZ 3CH x 100 W Dual Isolator + DUPT-10 2 x 2HU
55432-173	HCMR450-3D-H-5-150 440-475 MHZ 3CH x 100 W Dual Isolator + DUPT-5 2 x 2HU
55434-183	HCMR450-3D-H-10-150 440-475 MHZ 3CH x 100 W Dual Isolator + DUPT-10 2 x 2HU
Note	Power cable not included

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