

Datasheet

HCMR450-3-DUPT

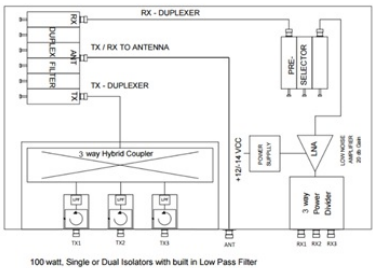
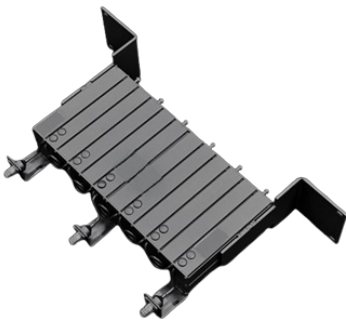
Hybrid 3 channel UHF TX/RX Combiner & duplexer HS

HCMR450-3-DUPT series is a UHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 3 UHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" tray (3HU-DUPT-R).
- Tuned to customer specified frequencies, need to be specified when ordering.
- Full bandwidth.
- 100W power.
- Combiner with high spec. external duplexer.

ELECTRICAL SPECIFICATIONS

Type	UHF TX/RX Hybrid Combiner & duplexer - 3 Channels
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)



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