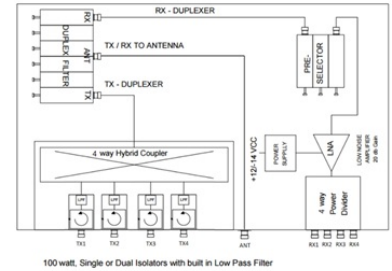


HCMR450-4-DUPT

Hybrid 4 channel UHF TX/RX Combiner & duplexer HS

HCMR450-4-DUPT series is a UHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 4 UHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" panel (3HU + DUPT-R).
- Tuned to customer specified frequencies, need to be specified when ordering.
- 100w power handling.
- Combiner with high spec. external duplexer.



ELECTRICAL SPECIFICATIONS

| | |
|---------------------|--|
| Type | UHF TX/RX Hybrid Combiner & duplexer - 4 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: < 8.6 dB Dual Isolator: < 8.9 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 <0.5 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 (Adjustable in band) |
| Gain | RX: 20±1.0 dB |
| LNA Noise Figure | < 2.0 dB |
| Power Supply | 100-240 V; 50/60 Hz (Max. 7W) |

Datasheet

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MECHANICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Color | Black |
| Dimension | Two of: 482.6 x 89 x 300 mm (W x H x L) |
| Weight | Single Isolator: 10.2 kg Dual Isolator: 11.0 kg |
| Connector | Type N-female |
| Serial no. | On product label |
| Operating temperature | -20° to +60°C |

ORDERING INFORMATION

| | |
|-----------|--|
| 55442-113 | HCMR450-4S-L-5-150 400-440 MHZ 4CH x 100 W Single Isolator + DUPT-5 |
| 55444-123 | HCMR450-4S-L-10-150 400-440 MHZ 4CH x 100 W Single Isolator + DUPT-10 |
| 55442-133 | HCMR450-4S-H-5-150 440-475 MHZ 4CH x 100 W Single Isolator + DUPT-5 |
| 55444-143 | HCMR450-4S-H-10-150 440-475 MHZ 4CH x 100 W Single Isolator + DUPT-10 |
| 55442-153 | HCMR450-4D-L-5-150 400-440 MHZ 4CH x 100 W Dual Isolator + DUPT-5 |
| 55444-163 | HCMR450-4D-L-10-150 400-440 MHZ 4CH x 100 W Dual Isolator + DUPT-10 |
| 55442-173 | HCMR450-4D-H-5-150 440-475 MHZ 4CH x 100 W Dual Isolator + DUPT-5 |
| 55444-183 | HCMR450-4D-H-10-150 440-475 MHZ 4CH x 100 W Dual Isolator + DUPT-10 |
| Note | Power cable not included |