

HCMR450-3-DUPT

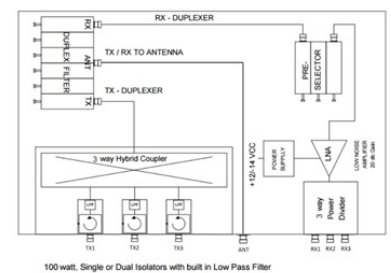
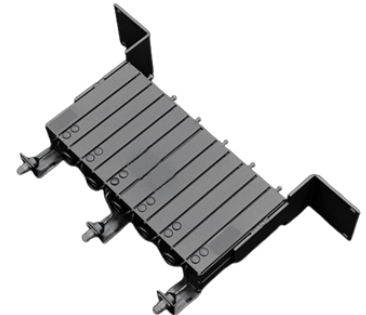
Hybrid 3 channel UHF TX/RX Combiner and Duplex Filter HS

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.

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) |



Datasheet

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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 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 |