

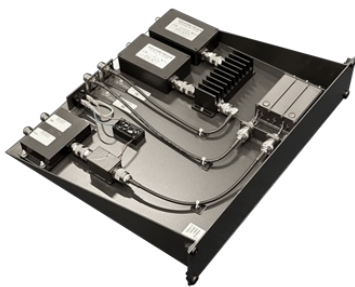
Datasheet

HCMR150-2-DUPT

144-175 MHz VHF 2CH HYBRID combiner & duplexer HS

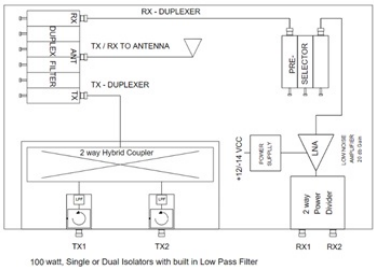
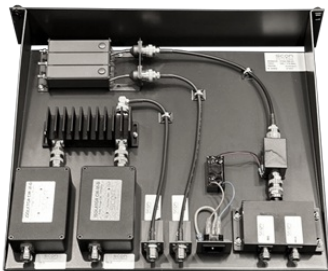
HCMR150-2-DUPT is a VHF TX/RX hybrid combiner & duplexer with single or dual isolators used for combining 2 VHF transceivers into one antenna with close frequency spacing.

- Standard EIA 19" tray, 500 mm depth (3HU).
- Tuned to customer specified frequencies, need to be specified when ordering.
- Full bandwidth.
- 100W power handling.
- Combiner with high spec. external duplexer.



ELECTRICAL SPECIFICATIONS

| | |
|---------------------|--|
| Type | VHF TX/RX Hybrid Combiner & duplexer - 2 Channels |
| Frequency | 144 - 162 MHz 158 - 175 MHz |
| VSWR | ≤ 1.5:1 |
| Impedance | 50 Ohm |
| Max. Input Power | 100 Watts (Per channel) |
| Insertion Loss (TX) | Single isolator: < 4.8 dB Dual isolator: < 5.1dB |
| 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: > 50 dB Dual: > 70 dB |
| Isolation RX-RX | >20 dB |
| Bandwidth (RX) | Approx. 3 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 Grey (RAL7021) |
| Dimension | 482.6 x 133.5 x 500 mm (W x H x L) |
| Weight | Single isolator: 7.1 kg Dual isolator: 7.9 kg |
| Connector | Type N-female |
| Serial no. | On product label |
| Operating temperature | -20° to +60°C |

ORDERING INFORMATION

| | |
|-----------|--|
| 55122-113 | HCMR150-2S-L-5-150 144-162 MHZ 2CH x 100 W Single Isolator + DUPT-5 |
| 55124-123 | HCMR150-2S-L-10-150 144-162 MHZ 2CH x 100 W Single Isolator + DUPT-10 |
| 55122-133 | HCMR150-2S-H-5-150 158-175 MHZ 2CH x 100 W Single Isolator + DUPT-5 |
| 55124-143 | HCMR150-2S-H-10-150 158-175 MHZ 2CH x 100 W Single Isolator + DUPT-10 |
| 55122-153 | HCMR150-2D-L-5-150 144-162 MHZ 2CH x 100 W Dual Isolator + DUPT-5 |
| 55124-163 | HCMR150-2D-L-10-150 144-162 MHZ 2CH x 100 W Dual Isolator + DUPT-10 |
| 55122-173 | HCMR150-2D-H-5-150 158-175 MHZ 2CH x 100 W Dual Isolator + DUPT-5 |
| 55124-183 | HCMR150-2D-H-10-150 158-175 MHZ 2CH x 100 W Dual Isolator + DUPT-10 |
| Note | Power cable not included |