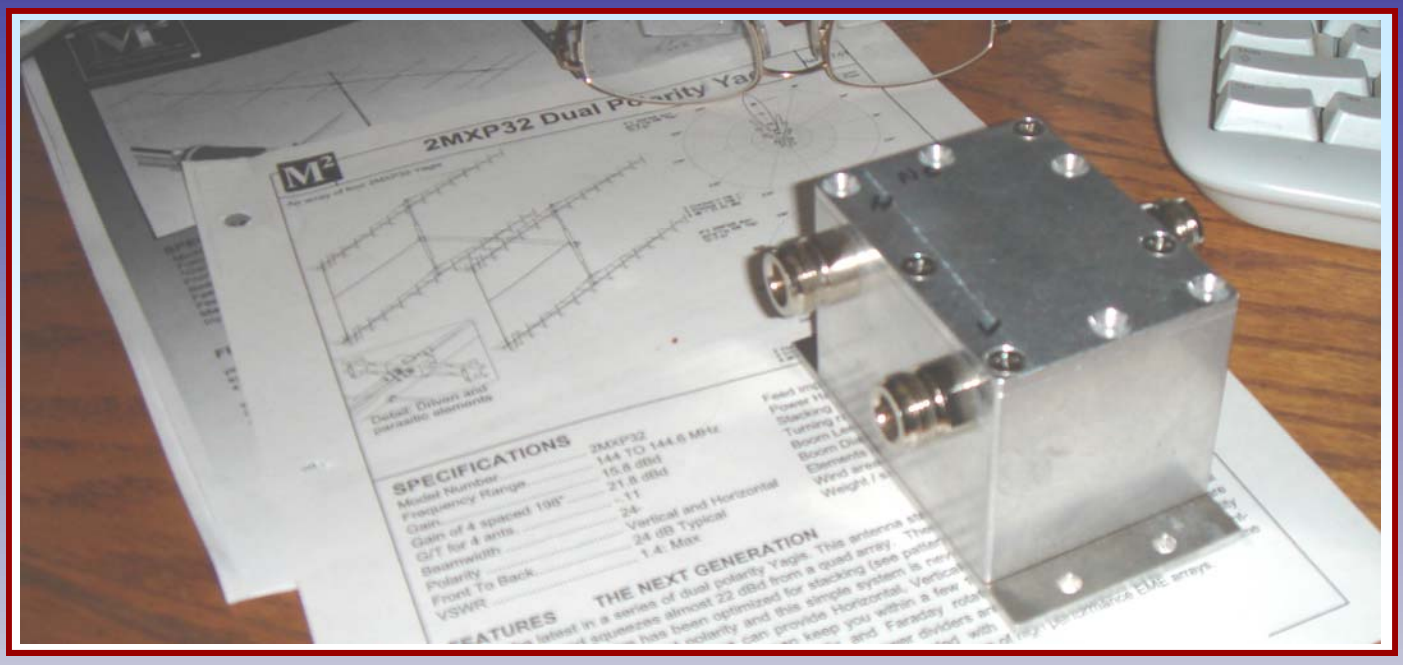
# M2 Antenna Systems, Inc.
# Model No: HPR-1




## PRELIMINARY SPECIFICATIONS

| Model Number | HPR-1 | | | |
|---|---|---|---|---|
| Frequency | Power handling | Through loss | Isolation VSWR (RL) | |
| DC-30 | <5 kW | 0.0 dB | >40 dB | <40 dB |
| 50 mHz | 5 kW | 0.0 dB | 32 dB | <40 dB |
| 144 mHz | 3 kW | 0.0 dB | 23 dB | <35 dB |
| 225 mHz | 2.5 kW | >/0.1 dB | 20 dB | <35 dB |
| 440 mHz | 2.0 kW | 0.1 dB | 17 dB | <30 dB |
| 950 mHz | 1.0 kW | 0.1 dB | 19 dB | <30 dB |
| 1300 mHz | 1.0 kW | 0.2 dB | 11 dB | <20 dB |

| | |
|---|---|
| Connector type | Standard with type 'N' (N) or SO-239 (S) 7-16 DIN optional |
| Voltage and current | 28 VDC @ 0.1 amp Max 40 VDC |
| Operating temp max. | +60C to –50C |

## FEATURES:

This coaxial relay was born and bred for HIGH POWER (QRO) GUYS, HF'ers and EME'ers alike. The sealed design makes it ideal for tower top duty, just where you need a "BULLET PROOF" relay. We all make mistakes; hot switching or transmitting into the wrong antenna. Atop your tower is no place for a "WIMPY" relay! The HPR-1 is the solution. It can handle those inevitable mistakes we all make because of the unique vacuum relay inside.

Ideal for switching between antennas and / or polarities, it is also perfect for VHF systems where Hi power Transmit / Receive (T/R) function and polarity switching are common. You EME'ers need this one.

Sure it can be used in the shack for the switching amplifiers or antennas. Anywhere you switch high RF power, this relay is at home! You can even switch HIGH VOLTAGE from one amp to another or just remove HV on receive if so desired.

When used with a Receive preamp at 144 MHz and above a second isolation relay outside or inside the preamp is recommended. Contact factory for more details and preamp recommendations.

Options include different connectors, a small quiet 28 VDC switching supply and multiple port switching with all the same features listed above.

We highly recommend that no relay be "HOT SWITCHED" but when it happens the HPR-1 will survive to switch again and again.

**M2 Antenna Systems, Inc. 4402 N. Selland Ave. Fresno, CA 93722**
**Tel: (559) 432-8873 Fax: (559) 432-3059 Web: www.m2inc.com**
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