

OAR-005 OUTDOOR BROADBAND REPEATER

- **Broadband Repeater with 80 Channel Capability**
- **Modular Design, Upgradeable**
- **Output for Booster Amplifier**
- **Digital Ready**



PRODUCT APPLICATION:

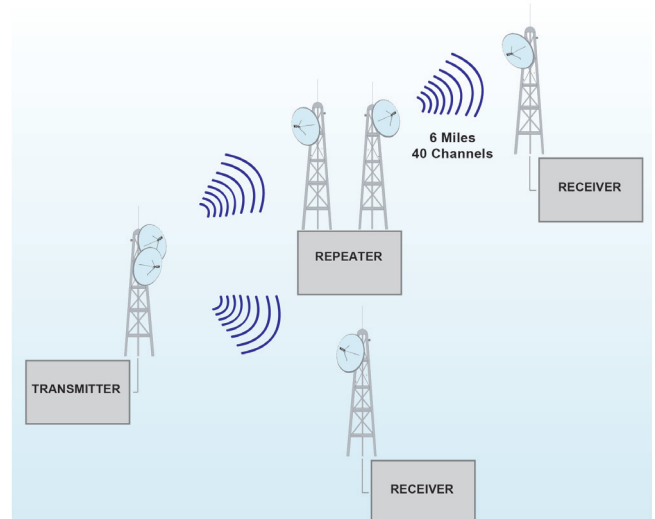
The OAR-005 Repeater is an on frequency repeater designed to bypass line-of-sight obstacles between desired transmitter and receiver locations by amplifying an incoming signal from the main transmitter and re-transmitting it in one or more directions.

With a capacity of up to 80 channels, the OAR-005 can feed several receivers and one local booster amplifier simultaneously.

The repeater's capability to drive a booster amplifier with a high quality signal makes it possible to significantly increase the effective range of the repeater and/or the number of receivers fed from the repeater site.

The OAR-005 features operating diagnostics such as output signal level monitoring and power supply voltages as well as a local drop to facilitate connection to an on-site receiver.

The repeater incorporates an Automatic Gain Control (AGC) circuit for gain control and adjustment and state-of-the-art Solid State GaAs amplifiers (LNA at the input and Power Amplifier at the output) for best reliability and performance.



Product Specification¹

CABLE AML

| Repeater | | | | | | | | | | | | | |
|----------------------------------|--|----------|-------------|----|-----|----|------|----|------|----|------|----|------|
| Output Frequency ² : | 12.7 to 13.25 GHz | | | | | | | | | | | | |
| Noise Figure: | 7 dB | | | | | | | | | | | | |
| Output Level for 65 dB C/CTB: | <table border="1"><thead><tr><th>Channels</th><th>dBm/Channel</th></tr></thead><tbody><tr><td>12</td><td>2.0</td></tr><tr><td>21</td><td>-0.5</td></tr><tr><td>35</td><td>-3.0</td></tr><tr><td>60</td><td>-5.5</td></tr><tr><td>80</td><td>-7.0</td></tr></tbody></table> | Channels | dBm/Channel | 12 | 2.0 | 21 | -0.5 | 35 | -3.0 | 60 | -5.5 | 80 | -7.0 |
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| 12 | 2.0 | | | | | | | | | | | | |
| 21 | -0.5 | | | | | | | | | | | | |
| 35 | -3.0 | | | | | | | | | | | | |
| 60 | -5.5 | | | | | | | | | | | | |
| 80 | -7.0 | | | | | | | | | | | | |
| Normal Gain: | 40 dB | | | | | | | | | | | | |
| Gain Flatness: | ±1 db | | | | | | | | | | | | |
| Total ACG Range: | 20 dB | | | | | | | | | | | | |
| Input Connector: | WR-75 Waveguide | | | | | | | | | | | | |
| RF Output Connector: | WR-75 Waveguide | | | | | | | | | | | | |
| Remote Monitor Output Connector: | MS3112E14-15P | | | | | | | | | | | | |
| Power Input Connector: | Dependent upon line voltage | | | | | | | | | | | | |
| Temperature Range: | -40° to 122° F (-40° to 50° C) | | | | | | | | | | | | |
| Primary Input: | 60/120/240 VAC @ 50/60Hz or 12/24 VDC (per customer spec) | | | | | | | | | | | | |
| Power Consumption: | 75 VA RMS | | | | | | | | | | | | |
| Mounting: | Antenna Pole Mount | | | | | | | | | | | | |
| Weight: | 46 lbs. (21 kg) | | | | | | | | | | | | |
| Dimensions: | 16" W x 12" H x 7" D (48.26cm rack width x 17.78cm H x 50.88cm D) | | | | | | | | | | | | |

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.