



OAR28-001 OUTDOOR ACTIVE REPEATER

- **Broadband Repeater for Point-to-Point LMDS applications**
- **Modular Design, Upgradeable**
- **Local Drop for On-Site Receiver**

PRODUCT APPLICATION:

The OAR28-001 Outdoor Broadband Repeater is an on-frequency repeater designed to bypass line-of-sight obstacles between transmitter and receiver locations by amplifying an incoming signal from the main transmitter (in the 26 to 30 GHz range) and re-transmitting it in one or more directions.

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.

The OAR28-001 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 OAR28-001 delivers high output power without compromising operational reliability by keeping the power amplifier operating below recommended thermal limits.

Repeater	
Input Frequency ² :	Any 500 MHz bandwidth in 26-30 GHz range
Noise Figure ³ :	8.0 dB
Output Level (single carrier):	27 dBm
Nominal Gain:	60 dB
Gain Flatness:	±1dB
Internal Attenuator Range:	15 dB
Input Connector:	WR-28 Waveguide
Output Connector:	WR-28 Waveguide
Temperature Range:	-22° to 122°F (-30° to 50°C)
Primary Power:	60/120/240 VAC @ 50/60Hz or 12/24 VDC (per customer spec)
Power Consumption:	1.5 A @ 240VAC
Mounting:	Antenna Pole
Dimensions:	15.74"W x 12.2"H x 10"D (40 x 31 x 25.4 cm)

¹ Specifications subject to change without prior notice.

² Other frequencies available.

³ Noise Figure is with repeater at nominal gain.