



**OAR02-008
OUTDOOR ACTIVE
REPEATER
(8 Watts)**

- ◆ **Broadband Repeater with 31 Analog or 150 Digital TV program Capability**
- ◆ **Provides high-quality MMDS signal to shadowed areas**
- ◆ **Rugged, Outdoor Enclosure**
- ◆ **Input LNA Included**

PRODUCT APPLICATION:

The OAR02-008 is a broadband solid state MMDS repeater designed to receive, amplify and retransmit at the same frequency up to 31 analog or 150 digital TV programs (with 64QAM, 256 QAM or OFDM modulation).

The OAR02-008 is designed to provide cost-effective MMDS coverage to an area that is in the shadow of the main transmitter. With an appropriate transmit antenna it can re-transmit the input signal to a distance of up to 5 km.

The OAR02-008 is designed to be installed outdoors to minimize the cable length from the repeater to the output or transmit antenna.

It consists of two outdoor enclosures. The first is a weatherproof outdoor LNA designed to be mounted near the input or

receive antenna. This LNA is connected to the repeater input by means of a low-loss, 50-ohm coaxial cable.

The second enclosure houses the repeater components, which consist of a microwave AGC circuit, river amplifier, power amplifier and power supply, all packaged in a weatherproof enclosure suitable for mounting within 50 meters of the transmit antenna.

The LNA is powered through the coaxial interconnect cable between it and the Repeater.

The Repeater standard power configuration is 120 to 240 VAC. Other AC and DC powering options are available by special request.

OAR02-008

Repeater			
Input Frequency:	2.5 to 2.7GHz		
Maximum Total Input Power:	-25 dBm max at LNA input		
Output Frequency ² :	2.5-2.7GHz		
Output Level for 50 dB C/CTB: (measured with CW carriers) ³	Channels	Average power dBm/Channel	Peak Power (dBm)
	9	16.5	19.0
	12	15.0	17.5
	18	13.0	15.5
	24	11.0	13.5
	30	10.0	12.5
Frequency Response:	±2 dB		
Gain:	20 dB for LNA, and 60 dB max. for the OAR02-008		
AGC range	25 dB typ.		
Noise Figure:	3 dB typical from LNA input		
Input Return Loss:	15 dB typ.		
Input Connector:	N (Female)		
Output Return Loss:	18 dB typ.		
Output Connector:	N (Female)		
Temperature Range:	-40 to +50C		
Primary Power:	100-240 VAC, 47-63 Hz		
Power Consumption:	70 VA		
Mounting:	Optional pole-mounting kit available		
Weight:	5 kg		
Dimensions:	251mm L x 160mm W x 150mm D		

¹ Specifications subject to change without prior notice.

² Other frequencies available.

³ The C/CTB with modulated carriers is approximately 6 dB better than with CW carriers.