CABLE AML



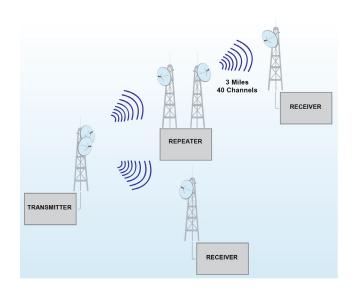
OAR18-005 OUTDOOR BROADBAND REPEATER

- Broadband repeater with 72 Channel Capability
- Feeds Booster Amplifier
- Upgradeable, Modular Design
- Local Drop for On-Site Receiver

PRODUCT APPLICATION:

The OAR18-005 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 and re-transmitting it in one or more directions.

With a capacity of up to 72 channels, the OAR18-005 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 of the repeater and/or the number of receivers fed from the repeater site.

The OAR18-005 features operating diagnostics such as output signal level monitoring and power supply voltages as well as local VHF drop to facilitate connection to an on-site receiver.

The repeater incorporates an Automatic Gain Control (AGC) circuit 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 OAR18-005 delivers high output power without compromising reliability by keeping the power amplifier operating temperature below recommended limits by using linearization techniques with a proven performance record.

Cable AML, Inc. Tel: (310) 222-5599 Fax: (310) 222-5593 www.cableaml.com 20120914

Product Specification¹



Repeater								
Input/Output Frequency ² :	17.70 to 18.30 GHz							
Noise Figure (35 channels) ³ :	5.0 dB							
Output Level for 65 dB C/CTB:	Channels	Main Output dBm/CH C/N(db) C/CTB(db)			dBm/Channel dBm/CH C/N(db) C/CTB(db)			
	12	4.5	65.0	60.0	-23.0	66.0	71.0	
	21	2.0	62.5	60.0	-25.5	63.5	71.0	
	35	-0.5	60.0	60.0	-28.0	61.0	71.0	
	60	-3.5	57.0	60.0	-31.0	58.0	71.0	
Normal Gain:	42.5 dB							
Gain Flatness:	±1 db							
Internal Attenuator Range:	30 dB							
Input Connector:	WR-42 Waveguide							
Output Connector:	WR-42 Waveguide							
Booster Output Connector:	WR-42 Waveguide							
Temperature Range:	-40° to 130°F (-40° to 55°C)							
Humidity:	100% Max							
Primary Power:	60/120/240 VAC @ 50/60 Hz or 12/24 VDC (per Customer Spec)							
Power Consumption:	100 VA RMS							
Mounting:	Antenna Pole Mount							
Weight:	50 lbs. (22.7 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.

Cable AML, Inc. Tel: (310) 222-5599 Fax: (310) 222-5593 www.cableaml.com 20120914

².Other frequencies available.

³ Noise Figure is with repeater at nominal gain.