CABLE AML



OTX18-002 OUTDOOR BROADBAND TRANSMITTER

- Broadband Transmitter with 72 Channel Capability
- Can Feed Four Receiver at 3 Miles Each
- Upgradeable, Modular Design
- Feeds Booster Amplifier

PRODUCT APPLICATION:

The OTX18-002 Transmitter is an outdoor, solid state, broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 72 television channels.

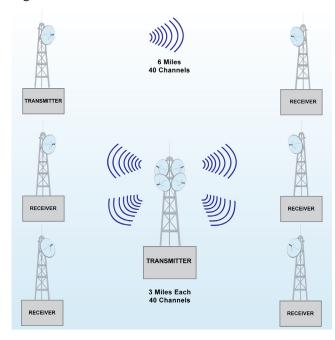
This transmitter can be used to feed a single link or several links simultaneously. A typical application example would be a single 6-mile (10-kilometer) link with 40 channel loading, or four simultaneous links of 3 miles (5 kilometers) each.

The OTX18-002 can feed several receivers and one local booster amplifier simultaneously. The capability to drive a booster amplifier with a high quality signal makes it possible to significantly increase the effective range of the transmitter and/or the number of receivers fed from the transmitter site.

The OTX18-002 features operating diagnostics such as output signal level monitoring, phase-lock status and power supply voltages. Remote diagnostics monitoring is offered as an option.

The transmitter incorporates and Automatic Gain Control (AGC) circuit for gain control over its operating temperature range, and a State-of-the-Art low-noise crystal controlled reference oscillator and solid state GaAs power amplifier for best reliability and performance.

Designed for many years of trouble-free operation in an outdoor environment, the OTX18-002 can be easily upgraded to the higher power OTX18-005 to accommodate additional requirements for more receiver sites or higher channel loads.



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Product Specification¹



Transmitter								
Input Frequency ² :	54 to 552 MHz							
Nominal Input Level for 12 TV:	20 dBmV							
Output Frequency ² :	17.70 to 18.30 GHz							
Output Level for 65 dB C/CTB:	Channels	Main Output			Booster Output			
		dBm/Ch	C/N (dB)	C/CTB (dB)	dBm/Ch	C/N (dB)	C/CTB (dB)	
	12	0.5	63.0	60.0	-26.0	63.0	75.0	
	21	-2.0	60.5	60.0	-28.5	60.0	75.0	<u> </u>
	35	-4.5	58.0	60.0	-31.0	58.0	75.0	-
	72	-7.5	55.0	60.0	-34.0	55.0	75.0	_
Normal Gain ³ :	33 dB							
Frequency Response:	±1.0 dB							
Frequency Stability:	0.0005%							
Input Return Loss:	15 dB							
Input Connector:	Type "F"							
Output Return Loss:	18 dB							
RF Output Connector	WR-42 Waveguide							
Temperature Range:	40° to 120°F (40° to 49°C)							
Humidity:	100% max.							
Primary Power:	60/120/240 VAC, 50/60Hz or 12/24 VDC (per customer specification)							
Power Consumption:	100 VA RMS							
Mounting:	Antenna Pole Mount							
Weight:	50 lb. (22.7 kg)							
Dimensions:	16" W x 13" H x 7" D (40.6cm W x 33cm H x 17.8cm D)							

¹ Specifications subject to change without prior notice.

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² Other frequencies available.

³ Gain may be varied with 10dB attenuator.