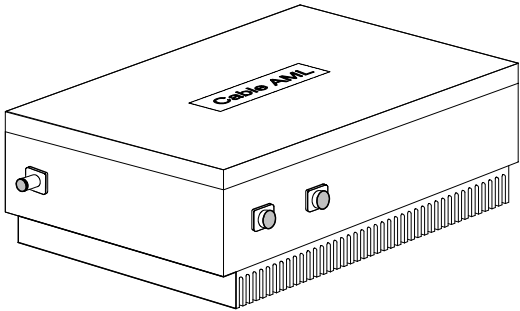


**OTX-005  
OUTDOOR BROADBAND  
TRANSMITTER**



- ◆ **Broadband Transmitter, 80 Channel Capability**
- ◆ **Can Feed Four Receivers at 6 Miles Each**
- ◆ **Outdoor, Modular Design**
- ◆ **Digital Ready**

**PRODUCT APPLICATION:**

The OTX-005 Transmitter is an outdoor, solid state, broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 80 television channels.

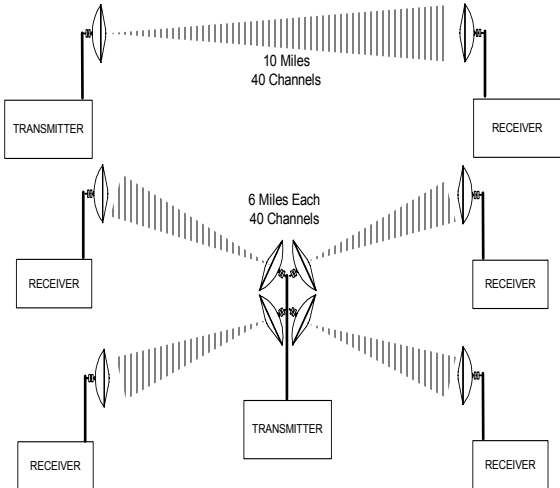
This transmitter can be used to feed a single link, or several links simultaneously. A typical application example

would be a single 10-mile (16 km) link with 40 channel loading, or four simultaneous links of 6 miles (9.6 kilometers) each.

The OTX-005 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 an 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, the OTX-005 can be upgraded to the higher power OTX-005+.



## OTX-005

Input Frequency:	54 to 550 MHz																		
Input Level (60 channel loading):	+13 dBmV/Ch (-36 dBm per channel)																		
Output Frequency <sup>2</sup> :	12.7 to 13.25 GHz																		
Output Level for 65 dB C/CTB :	<table border="1"> <thead> <tr> <th>Channels</th> <th>dBm/Channel</th> <th>C/N (dB)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>2.0</td> <td>65.0</td> </tr> <tr> <td>21</td> <td>-0.5</td> <td>62.5</td> </tr> <tr> <td>35</td> <td>-3.0</td> <td>60.0</td> </tr> <tr> <td>60</td> <td>-5.5</td> <td>57.5</td> </tr> <tr> <td>80</td> <td>-7.0</td> <td>56.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	2.0	65.0	21	-0.5	62.5	35	-3.0	60.0	60	-5.5	57.5	80	-7.0	56.0
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60	-5.5	57.5																	
80	-7.0	56.0																	
Nominal Gain <sup>3</sup>	32 dB																		
Frequency Response:	±1 dB																		
Frequency Stability:	0.0005%																		
Input Return Loss:	15 dB																		
Input Connector:	Type "F"																		
Output Return Loss:	18 dB																		
Output Connector:	WR-75 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 spec)																		
Power Consumption:	100 VA RMS																		
Weight:	50 lbs. (22.7 kg)																		
Dimensions:	16"H x 13"W x 7"D (40.6 x 33 x 17.8 cm)																		

<sup>1</sup> Specifications subject to change without prior notice.

<sup>2</sup> For Group C. Other frequencies available

<sup>3</sup> Gain may be varied with 10 dB attenuator.