

TRANSCEIVER SPECIFICATIONS

Primary Power	117 ± 10% VAC, 60 Hz, 35 Watts
Temperature Range	40°F to 100°F or 4°C to 38°C
Humidity	to 95%
Dimensions	19." x 13.5" x 10. 1 "
Weight	20 lbs / 9.1 kg
Shipping Dimensions	24" X 18" X 12"
.....	610 mm X 457 mm X 305 mm
Shipping Weight	25 lbs / 11.4 kg

DOWNSTREAM RECEIVER

Microwave Input Frequency.....	12.70 GHz to 13.15 GHz
Microwave Input Connector	WR-75 Waveguide
VHF Output Frequency	54 MHz to 504 MHz
VHF Output Connector.....	Female F-type
Nominal Gain	+24 dB
Frequency Stability	Phaselocked to Downstream Transmitter
Microwave Input Return Loss	+16 dB
RF Output Return Loss	+/-14 dB
Noise Figure.....	6 dB
Nominal Output in AGC	27 dBmV
Gain Flatness	+/-1.5 dB
Microwave AGC Dynamic Range	35 dB
VHF/AGC Dynamic Range	12 dB
AGC Flatness.....	+/-1 dB

Output Signal Quality @ 56 dB C/N

Number of Channels	Composite 2 nd Order (dBc)	Composite 3 rd Order (dBc)
40 ch	-70.0	-75.0
60 ch	-68.0	-71.5
72 ch	-67.4	-69.8

UPSTREAM TRANSMITTER

Microwave Output Level

No. of QPSK/ QAM Signals	P_o / Signal (dBm)
2	14
4	11
8	8
16	5
32	2
64	-1

Microwave Output Frequency	13.16 GHz to 13.20 GHz
Microwave Output Connector	WR-75 Waveguide
Pilot Tone Frequency	13198 MHz
VHF Input Frequency	5 MHz to 41 MHz
VHF Input Level	25 dBmV to 45 dBmV
VHF Input Connector	Female F-type
Nominal Gain	+29 dB
Frequency Response	13163.5 – 13192.2 +/- 2.0 dB
.....	13192.3 – 13199.5 +/- 3.5 dB
Frequency Stability	+/-0.0005%
RF Input Return Loss	+14 dB
Microwave Output Return Loss	+18 dB

Note: specifications subject to change without notice