



## TRANSCEIVER SPECIFICATIONS

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Primary Power .....	50 to 60 Hz, 50 to 65 Volts, 125 Watts
Temperature Range .....	-40°F to +120 °F or -40°C to +49°C
Humidity .....	to 100%
Dimensions.....	19.5" x 13.5" x 10. 1 "
Weight .....	48 lbs / 22 kg
Shipping Dimensions .....	24" X 18" X 12"
.....	610 mm X 457 mm X 305 mm
Shipping Weight.....	55 lbs / 25 kg

## DOWNSTREAM RECEIVER

Microwave Input Frequency .....	12.7 to 13.15 GHz
Microwave Input Connector.....	WR75 Waveguide Flange
VHF Output Frequency .....	54 to 504 MHz
VHF Output /Power Input Connector.....	.5/8 – 24 Cable Entry
Nominal Gain .....	+19 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.....	30 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 <sup>nd</sup> Order (dBc)	Composite 3 <sup>rd</sup> Order (dBc)
40 ch	-70	-75
60 ch	-68	-71.5
72 ch	-67.4	-69.8

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## UPSTREAM TRANSMITTER

Microwave Output Level

No. of QPSK/ QAM Signals	P <sub>o</sub> / Signal (dBm)
2	14
4	11
8	8
16	5
32	2
64	-1

Microwave Output Frequency.....	13.16 to 13.20 GHz
Microwave Output Connector.....	WR75 Waveguide Flange
Pilot Tone Frequency.....	13198 MHz
VHF Input Frequency.....	5 to 41 MHz
VHF Input Level.....	25 to 45 dBmV
VHF Input Connector.....	Female F type entry
Nominal Gain.....	+29 dB
Frequency Response.....	+/-1.0 dB
Frequency Stability.....	+/-0.0005%
RF Input Return Loss.....	+14 dB
Microwave Output Return Loss.....	+18 dB

Note: Specifications subject to change without notice.