

SPECIFICATIONS

GENERAL

Radio Frequency Range 10.7 to 13.25 GHz
 Radio Capacity one 525 or 625 line video signal plus 4 subcarrier program channels

TRANSMITTER

Output Power (Minimum to Branching Output)
 10.7 to 11.7 GHz +27 dBm
 11.7 to 12.7 GHz +26 dBm
 12.7 to 13.25 GHz +26 dBm
 Deviation 4 MHz peak
 Frequency Stability
 -30 to +55°C +0.005%
 +10 to +40°C +0.002%
 Baseband
 Video Level 1V P-P
 Impedance 75 ohms, unbalanced
 Return Loss (Excluding Filters) 26 dB
 50 Hz to 8.5 MHz
 RF Return Loss 26 dB (fo ± 10 MHz)

RECEIVER

Noise Figure (Including Filter) 9 dB
 RF Bandwidth 34 MHz (other bandwidths optionally available, consult factory)
 RF Return Loss 26 dB (fo ± 10 MHz) (depending on specific RF bandwidth supplied)
 IF
 Frequency 70 MHz
 Bandwidth 30 MHz (other bandwidths optionally available, consult factory)
 Return Loss 26 dB (fo ± 10 MHz) (depending on specific IF bandwidth supplied)
 Baseband
 Video Level 1V P-P
 Impedance 75 ohms unbalanced
 Return Loss 26 dB (50 Hz to 8.5 MHz excluding any filters)

VERTICAL MOUNTING REQUIREMENT

(19" EIA Rack/48.3 cm)
 Transmitter/Receiver 19" (w) x 9-1/2" (h) x 8-3/4" (d) (48.2 x 24.13 x 22.23 cm) - (5 rack spaces)
 Power Supply
 AC 7" (17.8 cm) - (4 rack spaces)
 DC 5-1/4" (13.3 cm) - (3 rack spaces)

SYSTEM PERFORMANCE

Video for 1 hop, 525/625 line color TV, emphasis, CCIR Weighting, -35 dBm Receive Carrier Level/Hop, W/O RFI or Echo Distortion
 Amplitude vs Frequency Response (reference to 200 kHz exclusive of any filter)
 10 kHz to 300 kHz ±0.15 dB maximum
 300 kHz to 5 MHz ±0.25 dB maximum
 5 MHz to 8 MHz ±0.5 dB maximum
 Chrominance Luminance
 Gain Inequality (RCL) ±1 IRE unit maximum
 Delay Inequality (RCD) ±20 ns maximum
 Waveform Distortion
 Field Time (FD) 3 IRE units maximum (clamped output)
 Line Time (LD) 1 IRE unit maximum
 Short Time (SD) 4 IRE units maximum
 Differential (10 to 90% APL)
 Gain 2% maximum
 Phase 0.2° maximum
 Insertion Gain
 1 Hour 0 dB, ±0.15 dB
 30 Day 0 dB, ±0.25 dB
 Signal-to-Noise Ratio
 10 kHz to 5 MHz 70 dB
 Receiver Threshold (to 37 dB SN) -79 dBm
 Signal-to-Low Frequency Noise Ratio (10 Hz to 10 kHz)
 AC Operation 54 dB minimum
 DC Operation 60 dB minimum
 Signal-to-Discrete Tone Ratio
 10 kHz to 5 MHz 60 dB minimum

ENVIRONMENTAL

Temperature
 Operational -30 to +55°C
 Meets Specs +10 to +40°C
 Relative Humidity 95% (+10 to +40°C)
 Altitude
 Operational 15,000 feet (4,500m)
 Storage 50,000 feet (15,000m)

PRIMARY POWER

Input Range
 AC 100 to 130; 200 to 260V (50 to 60 Hz)
 DC -21.5 to -56V @ 100 mV P-P maximum ripple
 Consumption
 Transmitter 60W
 Receiver 50W