CESR Series

Commercial Satellite Receiver



Features & Benefits

- Three Year Warranty
- C and Ku Band Compatible 950 to 1750 MHz
- Push Button Tuning of Transponder Frequency
- External 70 MHz IF loop for Easy TI Management

The CESR-c is a professional quality, high

Specifications performance, commercial satellite receiver. This unit is ideal for applications requiring a low cost, commercial grade satellite receiver. The CESR-c is C and Ku band compatible, accepting signals in the 950 to 1750 MHz frequency range. Frequency selection is accomplished via front panel push button switches, supporting both C band transponder and direct C and Ku band frequency settings. The receiver offers two modes of synthesized frequency control. A **Video** high-stability quartz crystal reference mode, with a 1 MHz tuning increment, allows for optimizing the receiver's terrestrial interference immunity. An AFC mode is also included, which provides tracking of the LNB frequency drift of the input signal. The ultra-stable phase locked loop demodulator features superior C/N threshold extension. This design delivers excellent picture quality, even under weak signal conditions. The unit can be set to one of two aural subcarrier modes, including fixed (6.8 MHz) and variable (5.4 to 8.2 MHz). An external 70 MHz IF loop is provided, which allows TI filters to be inserted as needed. This receiver comes standard with a 32 MHz IF bandwidth filter installed.

Frequency Range: 950 to 1750 MHz Tuning Increment: 1 MHz Input Level: -60 to -25 dBm Image Rejection: 45 dB Impedance: 75 Ohm

Frequency: 70 MHz Bandwidth: 32 (18, 20, and 25 optional) MHz Level: -10 dBm Static Threshold C/N: <8.0 dB Impedance: 75 Ohm

Standard Video Frequency Range: 25 Hz to 4.2 MHz Flat Video Frequency Range: 25 Hz to >8.0 MHz Composite Video Frequency Range: 25 Hz to >8.0 MHz Output Level: 1.0, ±3 dB adj. (V p-p) Format: NTSC, negative sync De-Emphasis: CCIR 405-1, 525 lines Polarity: standard or inverted Differential Gain: <5 % Differential Phase: <5° Chrominance/Luminance Intermod Distortion: Gain Inequality: ±5, max IRE Delay Inequality: ±26 ns Distortion Short Time: <3 % Line Time: <2 % Field Time: <3 %

Dispersion Removal: >40 dB Audio

Frequency Range: 20 Hz to 15 kHz Frequency Response: ±1.0 dB Output Level: 0 dBm Output Level Range: 0 to 12, minimum dB De-Emphasis: 50, 75, J17 μs Signal-to-Noise Ratio: 60 dB Harmonic Distortion: <1.0 % Impedance: 600, unbalanced Ohm

General

Power Requirements Voltage: 117, ±10% VAC Frequency: 60 Hz Power: 15 W LNB Supply Voltagé: 17, min VDC Current: 250, max mA Fuse: 1/4 Temperature Range: 0 to +50 °C

Mechanical

Dimensions (WxHxD): 19.0 x 1.75 x 12.0 in. 483 x 44 x 305 mm Weight: 7.50 lbs. (3.41 kg)

Controls (Front Panel)

Frequency Selection: Push Button Switches Video Polarity (NORM/INV): Slide Switch Tuner Reference (XTAL/AFC): Slide Switch AFC Fine Tuning: Control Audio Subcarrier Select (6.8/VAR): Slide Switch Audio Subcarrier Tuning: Control Video Level: Control Audio Level: Control

Controls (Rear Panel)

LNB Power (ON/OFF): Slide Switch Aural Bandwidth (Narrow/Wide): Slide Switch

Indicators (Front Panel)

Power ON: LED, green Signal Strength OK: LED, green

Connectors (Rear Panel)

RF Input/LNB Power: "F" type, female 70 MHz IF Output: "F" type, female 70 MHz IF Input: "F" type, female Video Output, Standard: "F" type, female Video Output, Flat: "F" type, female Video Output, Composité: "F" type, female Audio Output: RCA Phono, female

> Refer to product instruction manual for additional specification measurements and notes.

Ordering Information

Model Stock No. Description CESR-C 6166 Commercial Satellite Receiver 950-1450 C & Ku Band Capable **CESR Options** CESR-OPT 02 6470 CESR-c Option: Stereo Audio CESR-OPT 03 6480 CESR-c Option: Second Audio Subcarrier





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