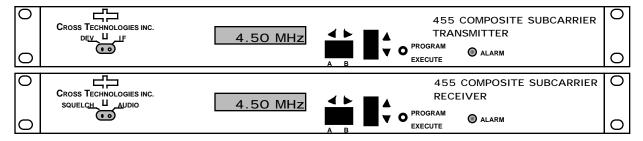


DATA SHEET

9/21/98

Model 455 Composite MTS/BTSC Subcarrier System

The 455 Composite Subcarrier System provides a transparent path for MTS/BTSC composite signals over a video microwave system with low distortion (less than 0.1 % at 1 kHz) and flat frequency response from 20 Hz to 120 kHz. Frequency from 1 MHz to 9.99 MHz and "wide" or "narrow" deviation settings appear on the front panel LCD display. The wide setting is for STL applications. The narrow setting provides BTSC broadcast standard compatibility (at 4.50 MHz) for direct feeds to cable systems or translator facilities. Connection to video is via a passive directional coupler which does not load the video signal even when power is lost. A remote control input can turn the channel on or off, or switch the operating frequency. The 455 demodulator's threshold extension allows receiving signals under severe fade conditions.



Model 455T Transmitter and Model 455R Receiver

455 EQUIPMENT SPECIFICATIONS*

System

Frequency range 1.0 to 9.99 MHz in 10 kHz steps Frequency response ± 0.1 dB from 20 Hz to 70 kHz

 \pm 0.5 dB from 70 kHz to 120 kHz

Distortion < 0.1 % at 1 kHz (De-emph, 30 kHz bandwidth)
Channel spacing (min) 280 kHz (narrow dev.), 600 kHz (wide dev.)
Remote control input On/off or alternate frequency selection
Power 115/230 VAC (47-63 Hz) < 30 W
Size 1.75" X H 19" W X 15" D, each

Modulator Characteristics:

Subcarrier output level 75 to 300 mV P/P (adj.)

Output impedance Bridging (>4 k ohms) to 75 ohm line Deviation (1V rms in): Input Deviation Setting

 Wide
 Narrow

 Composite
 ± 150.0 kHz
 ± 73 kHz

 Stereo
 ± 113.0 kHz
 ± 55 kHz

 SAP
 ± 30.8 kHz
 ± 15 kHz

 Pro
 ± 6.2 kHz
 ± 3 kHz

 Frequency
 Alarm
 Off
 Overmodulation
 Remodulation

Indications Frequency, Alarm, Off, Overmodulation, Remote Connectors (6) BNC Female; terminal strip for remote and alarms

Demodulator Characteristics

Subcarrier input level 20 mV to 400 mV P/P

Input impedance Bridging (>4 k ohms) to 75 ohm line

Composite output level 1.0 V rms for \pm 150 kHz(wide dev.) or \pm 73 kHz (narrow dev.)

Indications Frequency, Alarm, Off, Remote

Connector (3) BNC Female; terminal strip for remote and alarms

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^{*+10} to +40 degrees C; Specifications subject to change without notice