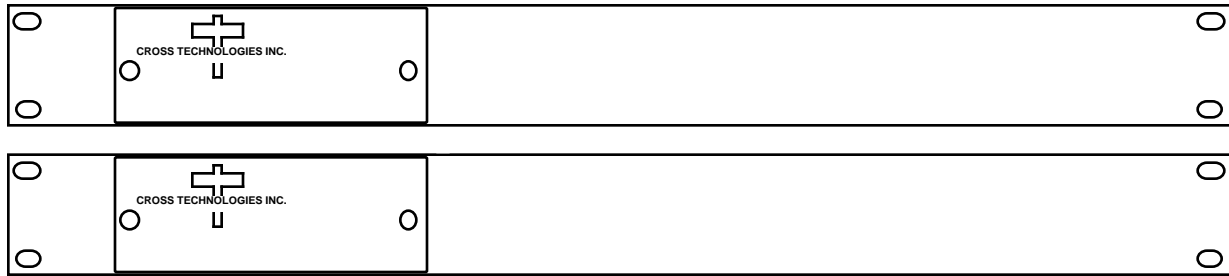


## Model 2455 Composite MTS/BTSC Subcarrier System

The 2455 Composite Subcarrier System provides a transparent path for MTS/BTSC composite signals over a video microwave system with low distortion and flat frequency response from 20 Hz to 120 kHz. Frequency is crystal controlled and specified at the time of order from from 5.4 MHz to 8.5 MHz. Connection to video is via a high impedance resistor which does not load the video signal even when power is lost.



### Model 2455T Transmitter and Model 2455R Receiver

#### 2455 EQUIPMENT SPECIFICATIONS\*

##### System

Frequency range	5.4.0 to 8.5 MHz, crystal controlled, factory set
Frequency response	$\pm 0.2$ dB from 20 Hz to 70 kHz $\pm 0.5$ dB from 70 kHz to 120 kHz
Distortion	< 0.3 % at 1 kHz (De-emph, 30 kHz bandwidth)
Emphasis	None
Channel spacing (min)	600 kHz
Power	115 VAC (60 Hz) < 20 W
Size	1.75" X H 19" W X 15" D, each

##### Modulator Characteristics:

Subcarrier output level	25 to 250 mV P/P (adj.)
Output impedance	Bridging (>1.5 k ohms) to 75 ohm line
Deviation (1V rms in):	$\pm 150.0$ kHz
Composite Impedance In	600 balanced or 300 single ended
Indications	Alarm, Peak modulation
Alarm	PLL out of lock
Connectors	BNC Female; terminal strip for audio and alarm

##### Demodulator Characteristics

Subcarrier input level	25 mV to 250 mV P/P
Input impedance	Bridging ( >1.5 k ohms) to 75 ohm line
Composite output level	1.0 V rms for $\pm 150$ kHz(composite)
Composite Impedance Out	600 balanced or 300 single ended
Alarm	Input subcarrier level low
Indications	Alarm (Input subcarrier level low), Audio presence indicator
Connector	BNC Female; terminal strip for audio and alarm

\*+10 to +40 degrees C; Specifications subject to change without notice

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