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 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: ± 0.2 dB from 20 Hz to 70 kHz
  ± 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): ± 150.0 kHz
- Composite Impedance In: 600Ω balanced or 300Ω 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 ± 150 kHz(composite)
- Composite Impedance Out: 600Ω balanced or 300Ω 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*