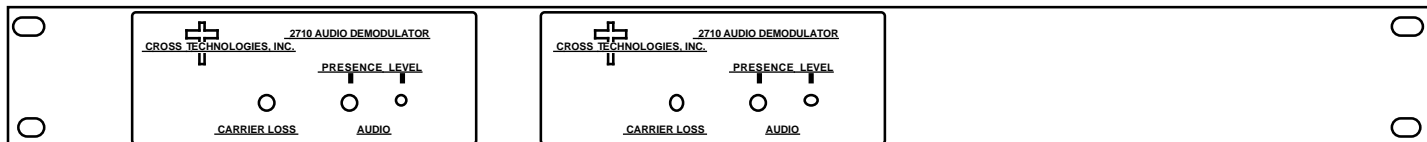


Model 2779, 2710 Subcarrier System

The 27XX (2779-XX for transmitter, 2710-XX for receiver) is a crystal controlled FM subcarrier system for multi-channel applications above a video signal with low distortion, flat frequency response from 50 Hz to 15 kHz, and factory set subcarrier frequencies 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 2779-XX Transmitter and Model 2710-XX Receiver - Dual



Model 2779-XX Transmitter and Model 2710-XX Receiver - Single

2779, 2710 EQUIPMENT SPECIFICATIONS*

System - Audio

- Peak program level (PPL) +0 to +18 dBm, adjustable
- Frequency response ± 0.25 dB from 50 Hz to 15 kHz
- Distortion < 0.3% at 1 kHz (De-emph, 30 kHz bandwidth)
- Compandor type None
- Emphasis 75 usec, J17 available
- Dynamic Range > 75 dB from PPL for 75 kHz peak deviation, clean signal
> 60 dB from PPL for 75 kHz peak deviation, clean signal

System - Other

- Frequency range 5.4.0 to 8.5 MHz, crystal controlled, factory set
- Channel spacing (min) approximately 2.4 X (peak deviation + top audio frequency)
- Deviation (at PPL) ± 50 kHz to ± 325 kHz, factory set
- Connectors BNC, female, subcarrier in/out; terminal strip, audio and alarm
- 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
- Audio Impedance 600 , balanced (high impedance ,> 50K , available)
- Alarms Carrier frequency out of lock
- Indications Alarm, Peak modulation

Demodulator Characteristics

- Subcarrier input level 25 mV to 250 mV P/P
- Input impedance Bridging (>1.5 k ohms) to 75 ohm line
- Audio Impedance 600 , balanced (low impedance ,100 , available)
- Alarm Input subcarrier level low
- Indications Alarm (Input subcarrier level low), Audio presence indicator

MODELS					Peak Deviation	CH. Spacing	Threshold-C/No
<u>TX SINGLE</u>	<u>TX DUAL</u>	<u>RX SINGLE</u>	<u>RX DUAL</u>	<u>TX + RX</u>			
2779-01	2779-21	2710-01	2710-21	2751-21	150 kHz	400 kHz	67
2779-02	2779-22	2710-02	2710-22	2751-22	75 kHz	250 kHz	64
2779-03	2779-23	2710-03	2710-23	2751-23	50 kHz	180 kHz	62

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

