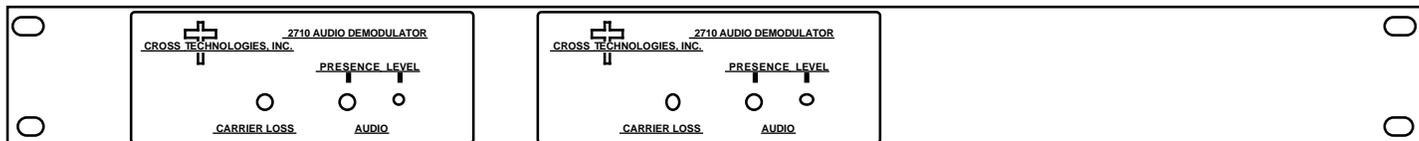
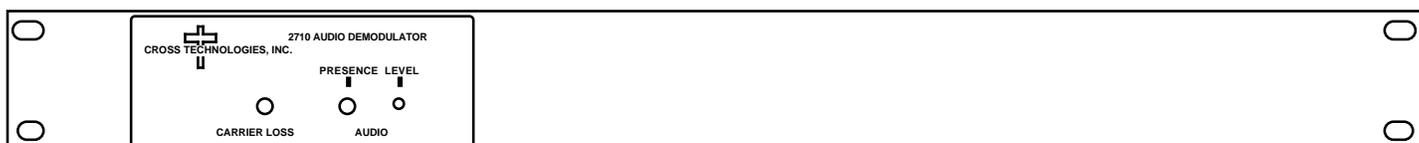


Model 2779, 2710 Subcarrier System

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)
Compondor 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

<u>TX SINGLE</u>	<u>TX DUAL</u>	<u>RX SINGLE</u>	<u>RX DUAL</u>	<u>TX + RX</u>	<u>Peak Deviation</u>	<u>CH. Spacing</u>	<u>Threshold-C/No</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

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