LCM-550X12

PAL I ADDENDUM

INSTRUCTION MANUAL

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LCM-550X12
PAL I

Specifications

Output Frequency Range ..... 48.25MHz to 551.25MHz. Selectable by front panel DIP switch in 2MHz increments (250KHz internal adjustment)

Frequency Offset ..... +12.5KHz tunable by front panel adjustment

Output Power Level ..... +40dBmV minimum per channel, +45dBmV typical

Frequency Accuracy / Stability ..... <±5KHz of selected channel frequency (+10°C to +40°C)

Video Performance ..... 1V P-P input nominal for 80% modulation. Differential gain <5% Differential Phase <5°

Spurious Outputs ..... >55dB below output visual carrier level, 60dB typical

Out-of-Band C/N ..... >76dB as measured in a 4.0MHz noise bandwidth

In-Band C/N ..... >60dB as measured in a 4.0MHz noise bandwidth

Audio / Video Ratio ..... Adjustable from 13dB to20dB below video carrier

Audio Performance ..... 500mV P-P for 50KHz deviation, front panel adjustable.10K input Z

Audio Intercarrier Stability ..... 6.0MHz within ±1KHz

Front Panel Controls ..... RF output adjust
A/V ratio adjust
Video & Audio modulation
Frequency offset adjust
Channel select DIP switches

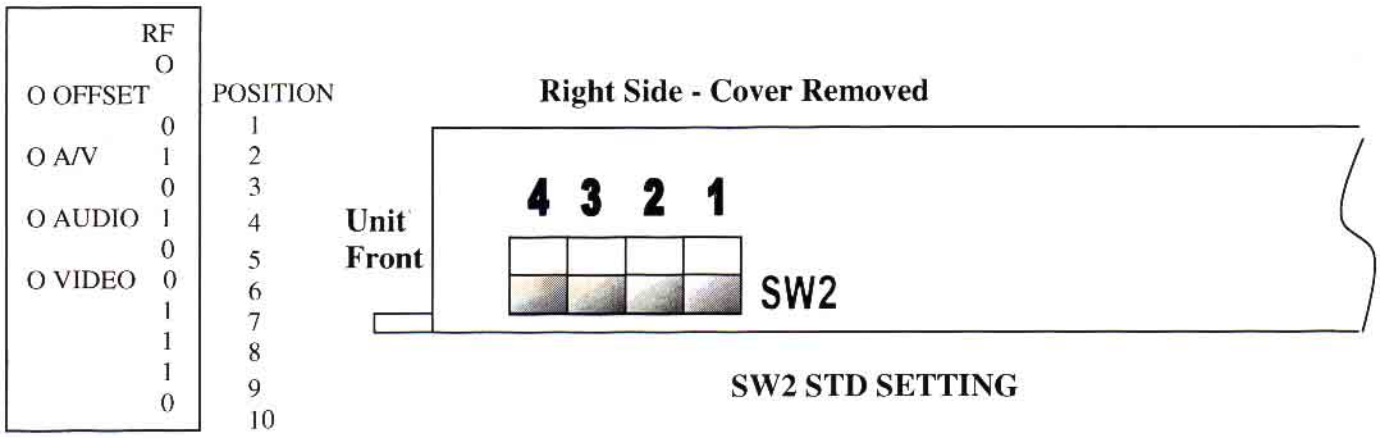
Power Requirements ..... 85-264VAC, 47-63Hz, 72 watts

Chassis Size ..... 3.5”H x 19”W x 11”D (Rack mount chassis)

CHANNEL SELECTION

Channels are selected with 10 front panel DIP Switches and 3 internal DIP switches.

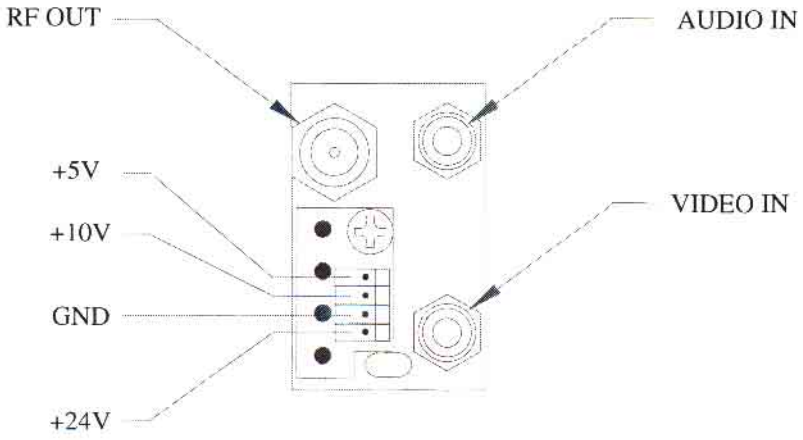
0=Switch in RIGHT Position
1=Switch in LEFT Position



Settings shown above are for channel 1, 55.25MHz.

REAR PANEL

The rear panel of each module has Audio and Video inputs, RF output and Power In. The Audio and Video inputs are RCA type phono jacks and the RF output is type "F".



CH	FREQ.	SW SETTINGS		SW2 4321
1	55.250	01010	01110	000X
2	63.250	01010	10010	000X
3	71.250	01010	10110	000X
4	79.250	01010	11010	000X
**	87.250	01010	11110	000X
**	95.250	01011	00010	000X
**	103.250	01011	00110	000X
5	111.250	01011	01010	000X
6	119.250	01011	01110	000X
7	127.250	01011	10010	000X
8	135.250	01011	10110	000X
9	143.250	01011	11010	000X
10	151.250	01011	11110	000X
11	159.250	01100	00010	000X
12	167.250	01100	00110	000X
13	175.250	01100	01010	000X
14	183.250	01100	01110	000X
15	191.250	01100	10010	000X
16	199.250	01100	10110	000X
17	207.250	01100	11010	000X
18	215.250	01100	11110	000X
19	223.250	01101	00010	000X
20	231.250	01101	00110	000X
21	239.250	01101	01010	000X
22	247.250	01101	01110	000X
23	255.250	01101	10010	000X
24	263.250	01101	10110	000X
25	271.250	01101	11010	000X
26	279.250	01101	11110	000X
27	287.250	01110	00010	000X

CH	FREQ.	SW SETTINGS		SW2 4321
28	295.250	01110	00110	000X
29	303.250	01110	01010	000X
30	311.250	01110	01110	000X
31	319.250	01110	10010	000X
32	327.250	01110	10110	000X
33	335.250	01110	11010	000X
34	343.250	01110	11110	000X
35	351.250	01111	00010	000X
36	359.250	01111	00110	000X
37	367.250	01111	01010	000X
38	375.250	01111	01110	000X
39	383.250	01111	10010	000X
40	391.250	01111	10110	000X
41	399.250	01111	11010	000X
42	407.250	01111	11110	000X
43	415.250	10000	00010	000X
44	423.250	10000	00110	000X
45	431.250	10000	01010	000X
46	439.250	10000	01110	000X
47	447.250	10000	10010	000X
48	455.250	10000	10110	000X
49	463.250	10000	11010	000X
50	471.250	10000	11110	000X
51	479.250	10001	00010	000X
52	487.250	10001	00110	000X
53	495.250	10001	01010	000X
54	503.250	10001	01110	000X
55	511.250	10001	10010	000X
56	519.250	10001	10110	000X
57	527.250	10001	11010	000X
58	535.250	10001	11110	000X
59	543.250	10010	00010	000X
60	551.250	10010	00110	000X

0= Switch in RIGHT Position (ON)
1= Switch in LEFT Position (OFF)
X= Don't care
**= Channel Number Unknown