



WSM-360/360SL SAW FILTER MODULATOR (NTSC, PAL-B & PAL-D AVAILABLE)

FEATURES

- Front Panel Control, Easy to Operate
- High Output Level, Low Spurious
- Adjacent Channel Capability
- PLL Synthesized Channel Control
- With SAW Filter for Accurate Side Band Response and High Adjacent Rejection
- Spurious Harmonics 60dB down
- Low Out-of Band Noise for Multiple Modulator Installation
- Video Modulation and Audio Deviation Level Adjustable
- Overmodulation Indicator
- Sound Carrier Level Adjustable
- Field Defeatable Audio Pre-emphasis for BTSC Stereo/Mono Baseband Inputs
- High VSB Attenuation
- External IF Loop-Through Capable to Any Scrambling
- Meets F.C.C. Offset and Accuracy Requirement
- Built-in Power Supply for Easy Installation
- 19" EIA Rack Mountable

SPECIFICATIONS

RF

Output Frequency Range	NTSC : CH 2~13, A~W, AA~ZZ PAL-B : CH E2~E12, S1~S41, 21~31 PAL-D : CH DS1~DS12, Z1~Z37, 13~23
Output Level	WSM-360 50dBmV Typical WSM-360SL 60dBmV Typical
Output Level Range	20dB, continuously Adjustable
Spurious Harmonics	≥ 60dB below Video Carrier
Video/Audio Carrier Ratio	-9~-30dB continuously Adjustable
Frequency Accuracy/ Stability	±5KHz Standard Channels, ±3KHz FCC 21006 Offsets
RF Output Return Loss	16dB Min.

IF

Output Level	28dBmV (Video Carrier)
Video IF Carrier Frequency	NTSC : 45.75MHz PAL-B : 38.9MHz PAL-D : 38MHz
Audio IF Carrier Frequency	NTSC : 41.25MHz PAL-B : 33.4MHz PAL-D : 31.5MHz
Output Return Loss	16dB
Input Return Loss	12dB

VIDEO

Input Level	10Vp-p for 87.5% Mod.
Input Return Loss	18dB
Video S/N Ratio	60dB
Video C/N Ratio	60dB
Differential Gain	0.2dB for 87.5% Mod.
Differential Phase	1° for 87.5% Mod.
Overmodulation LED Indicator	Set @ 87.5%, Adjustable to 90% Typical

AUDIO

Input Impedance	10K Ω Unbalanced
Input Level	140mVp-p for ±25KHz Dev.
Audio Frequency	NTSC : 4.5MHz ± 1KHz above Video PAL-B : 5.5MHz ± 1KHz above Video PAL-D : 6.5MHz ± 1KHz above Video
Overmodulation LED Indicator	25KHz ± 2KHz
Pre-emphasis	NTSC: 75 μs PAL-B: 50 μs PAL-D: 50 μs
Audio Frequency Response	±1dB

GENERAL

Power Requirement	90~260V AC Switching 50/60Hz
Temperature Range	0~50°C
Rear Panel Connectors	RCA Type : Audio In F-Type : Video In, RF Out, IF In, IF Out
Dimensions	19"(L) × 9-1/2"(W) × 1-3/4"(H)
Weight	6lbs
Packing	1 set/Inner Box 5 Sets/ Carton/17 Kgs/3.3 cuft

FRONT PANEL OPERATION

- ① Power Indicator
- ② RF Output Level Adjustment
- ③ Channel Label
- ④ Audio Overmodulation Indicator
- ⑤ Audio Deviation Level Adjustment
- ⑥ Audio Carrier Level Adjustment
- ⑦ Video Modulation Level Adjustment
- ⑧ Video Overmodulation Indicator