

EX-2000 Series Stereo / Non Stereo Modulators



DESCRIPTION

Our new EX-2000 Series Modulators are perfect for all applications. They are available in 2 models. The CNA-EX-2000 has an integrated BTSC Stereo Encoder, and our CNA-EX-2000NS is stereo upgradeable in the field. All models are 54-860MHz, PLL synthesized, SAW filtered, frequency agile and 60dBmV output.

FEATURES

- 54-860 MHz Frequency Agile Output
- 60 dBm v High RF Output
- PLL Synthesized, Saw Filtered
- Integrated BTSC Stereo Encoder
- IF Loop for use with Digital and Scrambling Interfaces
- 4.5 MHz Input for Microwave or External Device
- Close d Caption – External Audio – Digital Compatible
- NTSC-PAL , Switchable 110–230 Voltage on Back Panel
- Up/Down Channel Selection LED Display on Front Panel
- STD – HRC – IRC Selectable with Preemphasis
- 1U High enclosure requires little rack space
- Long/de ep enclosure provides easy access from the rear
- Loop through receptacle AC plug for ease in powering
- Stereo Models and Upgradeable Models

SPECIFICATIONS AND INFORMATION

Description	MIN	TYP	MAX	UNIT	NOTE
RF output and Frequency Range	54		860	MHz	Agile Channel
o Digital Display: CATV Band	2		135	CH	STD/HRC/RD
o Digital Display: TV Band	2		69	CH	
o FCC Frequency Offset Pre-programmed (0, +12.5 KHz, +25 KHz)					
o Frequency Stability		+/-5	+/-10	Khz	Offset CH. +/-5KHz
Output Level	60			dBmv	
Output Adjustment Range	12	15		dB	
Spurious Output @55dBmv					
o A/V Ratio - -15db	-60	-65		dBc	
Sideband Filter Response					
@87 MModulation (Multi-burst), Frequency:					
o Fv2.00 MHz	-50	-55		dBc	
o Fv3.58 MHz	-60	-62		dBc	
o Fv4.50 MHz	-60	-62		dBc	
Output Return Loss		12		dB	Output @55dBmv
Aural Carrier Adjustment Range	11		18	dB	Tolerance +/-3dB
In Channel C/N @4MHz BW	60	63		dB	
Broadband Noise		-75		dBc	@4MHz Bandwidth
Composite IF Loop (Loop output is after SAW filtering)		45.75		MHz	
o Visual Carrier Frequency		41.25		MHz	
o Aural Carrier Frequency		40		dBmv	
o Loop Level					
External Subcarrier Input Level (Selectable by internal jumpers)		37		dBmv	-15dB A/V Ratio
Video					
o Input Level @ 87.5 Mmodulation		1.0		Vpp	
o Frequency response @30Hz to 4MHz		+/-1.0	+/-1.5	dB	
o Differential Gain			5	M	
o Differential Phase			5	Deg	
o C/L Delay: Meets FCC CATV group delay pre-distortion					
Audio					
o Input Level @25KHz Deviation o Subcarrier Frequency 4.5MHz o Audio Response 40Hz to 15Khz	0.5	+/-1	+/-2 +/-1.5	Vpp KHz dB	Sin (1KHz) 75us pre-emphasis
Stereo Option					
o Stereo Separation @ 2KHz Tone		20		dB	
Operating Temperature	0		50		
AC Power 115 – 230 VAC		20		W	
Dimensions (WxHxD) 19"x1.75" x 11.8"					
Weight 9.5 lbs.					

Specifications are subject to change without notice.



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