



VOYAGER - MK I MODULATOR

Features

- Applicable for 47~870MHz system, fixed channel outputting, specially designed for small or middle scale system
- Medium frequency modulating, Video/Audio medium frequency signal input, output port can be applied for Scramble loading for fee-paid TV system
- In accordance to adjacent frequency design no interference between adjacent channel
- Oscillator using unique phase-lock (PLL) circuit makes phase noise extremely low, video clear & stable.
- LED display of output channel.
- Surface mount technology, ensuring the accordance of entire machine.
- 19" 1U standard structure, independent power supply, elegant outlook, flexible corollary equipment.



Specification

RF	Frequency Range	47~870MHz in specified channel	
	Frequency Range	PAL B/K	
	Intermediate Frequency	38MHz	
	Output Return loss	≥ 14 dB (VHF) ≥ 12 dB (UHF)	
	Output level	≥ 115 dB μ V	
	Output level adjustable range	0~15 dB	
	Audio carrier power to video carrier power ratio	-14~22 dB	
	Total Frequency deviation	≤ 5 KHz	
	Error of video/audio carrier interval	$\leq \pm 2$ KHz	
	Carrier to noise ratio (C/N)		≥ 60 dB (fe ± 4 MHz)
			≥ 65 dB (fe ± 8 MHz)
			≥ 70 dB (fe ± 16 MHz)
Output suppression	≥ 62 dB		
Interface	FI10		
Video	Degree of modulation signal	$\geq 85\%$	
	Flatness in operating band	$\leq \pm 1.5$ dB	
	Gain of differential coefficient	$\leq 5\%$	
	Phase of differential coefficient	$\leq 5^\circ$	
	K-2T Factor	$\leq 3\%$	
	Delay difference of colour or light	≤ 45 ns	
	Signal to noise ratio		≥ 54 dB (un weighted)
		≥ 60 dB (weighted)	
Audio	Pre-emphasis of audio	50 μ S	
	Maximum partial frequency of audio	± 50 KHz	
	Audio flames	$\leq \pm 1$ dB(40Hz~15KHz)	
	Distortion degree of audio	$\leq 1\%$	
	Signal to noise ratio	≥ 60 dB	
Miscellaneous	Dimension	44mm x 482mm x 155mm	
	Power	AC220V $\pm 10\%$ 50Hz12VA	

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