



Adjacent Channel Modulator

Voyager-3 Adjacent Channel Modulator

Features

- Applicable for 47-870MHz system, fixed channel out put, specially designed for middle scale system.
- LCD display: Radio Frequency, Video/ Audio medium frequency modulating deviation, RF output level, A/V ratio, etc.
- I² C Bus control
- Audio noise reduction (optional)
- Medium frequency modulating, Video/ Audio medium frequency signal input, output port can be applied for interference loading for fee-paid TV system.
- In accordance to adjacent frequency design, no interference between adjacent channels.
- Having RF automatic amplitude-stabilizing circuit, marking front-end system becoming more stable and reliable.
- RF output adopting modulator amplification, ensuring RF output dynamic and parasite suppressing.
- Adopting unique diode dual-balance modulating, good linearity, low noise, modulator's indexes, such as S/N, C/N, D/G, D/P, have achieved internationally advanced level.
- Surface mount technology, ensuring the accordance of entire machine.
- 19" 1U standard structure, independent power supply, elegant exterior, flexible corollary equipment.



Specification

RF	Frequency	47~870MHz Specified channel
	TV system	PAL D/K
	Intermediate Frequency	38MHz
	Output Return logs	≥15dB(VHF) ≥12dB(UHF)
	Output level	≥115dB p V
	Output level adjustable range	0~16dB (0.5dB Step)
	Audio carrier power to video	-8~-22 dB
	Carrier power ratio	
	Total Frequency deviation	≤5KHz
	Error of video/Audio carrier interval	≤±2KHz
	Carrier to noise ratio (C/N)	≥60dB (fc+4MHz)
		≥65dB (fc+8MHz)
		≥70dB (fc+16MHz)
	Output suppression	≥62dB
Interface	FL10	

Video	Degree of modulation signal	≥87.5%
	Flatness in operating band	≤±1dB
	Gain of differential coefficient	≤3%
	Phase of differential coefficient	≤3°
	K-2T Factor	≤3%
	Delay difference of color or light	≤45ns
	Signal to noise ratio	≥55dB (unweighted)
		≥61dB (weighted)
Audio	Pre-emphasis of audio	50 p S
	Maximum partial frequency of audio	±50KHz
	Audio flatness	≤±1dB (40Hz~15KHz)
	Distortion degree of audio	≤1%
	Signal to noise ratio	≥60dB
Miscellaneous	Dimension	44mmX482X246mm
	Power	AC220V±10% 50Hz 15VA

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