

Analog Series

DSM860-1A adjacent channel modulator



Outline

DSM860-1A adjacent channel modulator is an enhanced TV modulator with the function of modulating audio and video signals into RF signal to output. As DSM2500A adjacent channel modulator, the DSM860-1A modulator is also an advanced fixed channel output modulator applied for 47-870 MHz large scale CATV system. Simultaneously, it has good performance in C/N, A/V, output level etc. Different from DSM2500A modulator, it has simple and different internal configuration so that it can leave out the modules and other components. Thereby, it can largely save the manufactures' and operators' cost.

Features

- I Applicable for 47-870MHz large-scale system
- I Fixed channel output
- I LCD display: including RF frequency, A/V medium frequency, video modulating depth, audio frequency modulating deviation, RF output level
- I IF modulation: IF audio and IF video signals input
- I Applicable for scrambling pay-per-use CATV system
- I Designed according to the transmission requirement of adjacent frequency, no interferences between adjacent channels
- I With RF automatic amplitude-stabilizing circuit so that the head-end system can be more stable and reliable
- I Good in linearity and low in noise by adopting unique diode dual-balance modulation circuit



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- I All indexes have reached to international advanced level, such as S/N, C/N, DG, DP
- I Manual technology to ensure the consistency of the entire machine
- I 19' 1U standard structure, independent power supply, elegant appearance

Specifications

RF	Frequency range	47~870MHz fixed channel
	TV format	PAL D/K or PAL B/G
	Intermediate frequency (IF)	38Mhz/31.5Mhz or 38.9Mhz/33.4 Mhz
	Output Return loss	≥15dB(VHF) ≥12Db(UHF)
	Output level	≥115dBuV(typical)
	Output level adjustable range	0~16dB
	Audio to video ratio (A/V)	-8~-22dB
	Frequency exactness	≤±5KHz
	Total Frequency deviation	≤10KHz
	Error of video/audio carrier interval	≤±0.5KHz
	Carrier to noise ratio (C/N)	≥63dB (fc±4 MHz)
		≥70dB (fc±8 MHz)
		≥80dB (fc±16MHz)
Output suppression	≥65dB	
Connector	FL10	
Video	Modulation depth	≥87.5%
	Input impedance	75Ω
	Input amplitude	1.0Vp-p
	Video flatness	≤±0.75dB
	Gain of differential coefficient	≤2%
	Phase of differential coefficient	≤2°
	K Factor	≤2%
	Time delay difference of color/ light	≤30ns
	Signal to noise ratio	≥56dB(unweighted)
≥62dB(weighted)		
Audio	Audio Pre-emphasis	50us



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	Input impedance	$\geq 10K\Omega$ (unbalanced)
	Maximum frequency derivation	$\pm 50KHz$
	Audio flatness	$\leq \pm 0.5dB$ (40Hz~15KHz)
	Audio distortion degree	$\leq 1\%$
	Signal to noise ratio	$\geq 65dB$
Miscellaneous	Dimension	44mm×482mm×330m
	Power	AC220V±10%50Hz12VA

Principle Chart

