

2500MB

Standard Adjacent Channel Modulator

2500MB, a standard adjacent channel modulator, is applicable to the CATV headend system. It's embedded with broadband amplifiers and it outputs the fixed channel. With a good price and performance ratio, it's the best choice for multiple channels adjacent CATV headend system. This equipment adopts the special IC to modulate the frequency to IF, after being mixed, amplified and filtered, it outputs the fixed channel range from 47~862MHz. By using the high reliable IF SAW filter, it performs stably.

Features

- * Adjacent Channel Capability
- * Spurious Harmonics 60dB up
- * With Saw Filter for Vestigial Sideband Response
- * +53dBmV RF Output Capability at Low Distortion

Specifications



RF

Output Frequency Range	47MHz~862MHz (Fixed Channel);
Output Level	$\geq 113\text{dB}\mu\text{V}$
Output Level Adjust Range	0~-15dB
Video/Audio Carrier Power Ratio	10~20dB (Adjustable)
Output Impedance	75 Ω
Spurious Harmonics	$\geq 60\text{dB}$
Frequency Accuracy f	$ \Delta f \leq 5\text{KHz (VHF)}; \Delta f \leq 10\text{KHz (UHF)}$
RF Output Return Loss	$\geq 10\text{dB (UHF)}; 12\text{dB (VHF)}$

Video

Input Level	1.0Vp-p @ 87.5% Modulation index
Input Impedance	75 Ω
Differential Gain	$\leq 5\%$ @ 87.5% Modulation index
Differential Phase	$\leq 5^\circ$ @ 87.5% Modulation index
C/L Delay	$ \Delta\tau \leq 45\text{ ns}$
Frequency Response	$\leq 2\text{dB}$
Modulation Range	60~90% (Adjustable)
Video S/N Ratio	$\geq 50\text{dB}$

Audio

Input Level	0dBu ($\pm 50\text{KHz}$ frequency deviation)
Audio Harmonic Distortion	$\leq 1\%$
Audio Frequency Response	$\pm 1\text{dB}@ 40\text{ Hz}\sim 15\text{K Hz}$
Audio S/N Ratio	$\geq 60\text{dB}$
Audio Pre-emphasis	50 μs

Specifications are subject to change without notice

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General	
Temperature Range	5~40℃
Relative Humidity	≤85%
Atmospheric Pressure	86~106Kpa
Power Supply	AC 220V±10%, 50±2Hz, ≤15W
Dimensions	483mm×230mm×45mm
Weight	47Kg

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