

OTM-4870 FREQUENCY AGILE 870MHz MODULATOR

Features / Benefits

- Frequency agile from 48.25 to 865.25MHz
- Microprocessor controlled by front panel push buttons
- LCD displays channel or test description
- >80dB out-of-band carrier to noise ratio
- +60dBmV high output level
- Video AGC selectable

- Composite IF loop for up-converer applications
- Dual high level IF loops
- Auxiliary IF for EAS compatibility
- BTSC stereo and sap compatible
- Low power consumption for reliability
- Available in NTSC or PAL formats



The **OTM-4870** has all the high end features required by the most sophisticated users of 100+ channels in cable televisions systems. Output frequencies may be selected by frequency in 12.5KHz increments or by channel designation. EIA or OLSON channel plans can be selected for standard channel, HRC or IRC assignments.

SAW Filtering and **OLSON TECHNOLOGY** system design factors insure an out-of-band C/N ratio greater than 80dB while maintaining an RF output level of +61dBmV over the entire operating frequency range of the OTM-4870.

The **OTM-4870** up converter section is a high performance tuner with excellent Phase Noise (>90dBc) and frequency response that exceeds DOCSIS and CMTS specifications.

Order From:



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OTM-4870



DE		ATING THE TAIDTINE	
RF	48.25MHz to 865.25MHz	AUX. IF INPUT	. Loss of video to modulator, rear
Frequency Range	Selectable by front panel	roul wiodes of Collifor	panel closure screws for EAS
	touchbuttons by channel or		compatibility
	frequency in 12.5KHz incre-		companionity
	ments.	EXTERNAL FEATURES	
RF Output Level			Video/Audio modulation levels,
Accuracy/Stability		Tiont I and Controls	Audio to Video carrier ratio, RF
Spurious Output			output level, LCD contrast
Out-of-Band C/N Ratio			control, Push button menu
Phase Noise			controls
	12dB to -21dB below video	Front Panel LED's	
rudio/ video Ratio	carrier level		sizer unlocked, Video/Audio
VIDEO	carrier rever		over modulation
Baseband Input Level	5 to 1.5 volts n-n (75.0)		over modulation
	1V p-p @ 87.5% modulation	Rear Panel Connectors	Type "F" connectors for RF
. 1300 1 offormation	Differential Gain < 3%	Total Tunor Connectors	output, RF test point, AUX IF
	Differential Phase <2°		input, Video baseband input,
Frequency Response			Video and Audio IF inputs/
	On/Off front panel control		outputs. Composite IF input/
Chroma-Luma Delay			output and Audio subcarrier.
			Screw terminals for contact
AUDIO			closure/audio baseband
Baseband Input Level	10 to +10dBm, 600 Ω	GENERAL	
•	balanced, Hi Z unbalanced	Power Supply	. Universal 90 VAC to 240 VAC,
Intercarrier Stability	±1KHz	11 7	50 to 60Hz with IEC 320 power
Audio Performance			connector
	typical)	Physical Size	1.75" H x 19" W x 10" D
Frequency Response	50Hz to 15KHz, ±1dB	Weight	.9 lbs.
Pre-Emphasis	75 is NTSC, 50 is PAL, defeated	Power Consumption	. 24 Watts
	by internal jumper for BTSC	Operating Temperature	. 0° C to 50° C
	and SAP compatibility		
Audio Subcarrier Input	+25dBmV to +45dBmV		
	@75 Ω		
DUAL IF LOOPS			
Video IF	+36dBmV @ 45.75MHz		
	(typical)		
Audio IF	Adjustable -12dB to -21dB		
	relative to video carrier		
COMPOSITE IF LOOP			
Video IF	+18dBmV @ 45.75MHz		
video 11	(typical)		
Audio IF	Adjustable -12dB to -21dB		
7 MUIO 11	relative to video carrier		



relative to video carrier

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