



## 862 MHz UHF / VHF Agile Modulator, Rack-Mounted Type

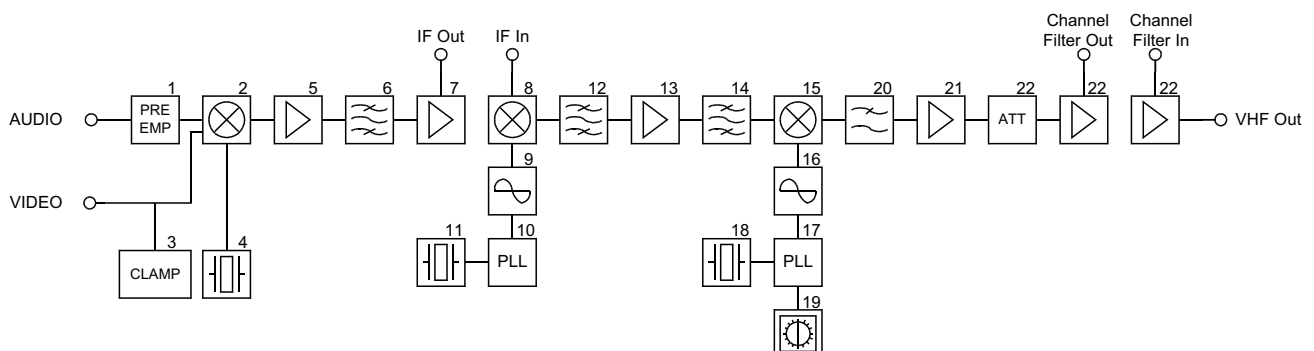


C1000-UVM

### Features and Characteristics:

- Convenient and accurate direct output frequency setting achieved with PLL/digital frequency synthesizer design
- Low spurious for adjacent channel application (Agile with single-sided band design)
- Minimum 52 dBmV (112 dBuV) RF output level
- Output level continuously adjustable
- Volume Control and Visual-Aural carrier level ratio adjustable
- All controls are front panel accessible. Main AC power loop-through is provided at back panel
- Built-in 110 ~ 230 V switching power supply for a direct AC powering
- TV System: PAL-B/G, NTSC

### Block Diagram:





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### Specifications :

Model Number			C1000-UVM			
			PAL B/G	NTSC		
RF Output Section	Frequency Range		MHz		47 ~ 862	
	Tuning Increment		MHz		1/10/100   1/10/100	
	Output Level		dBmV		+52	
	Output Level (Adjustable)		dB		0 ~ -18	
	Aural/Visual Carrier Ratio (Adjustable)		dB		-12 ~ -20	
	Visual Carrier Frequency Tolerance		KHz		±10	
	Aural/Visual Carrier Spacing		MHz		5.5   4.5	
	Spurious Output (Inband)		dBc		< -52	
	C/N Ratio In Channel		dB		> 65	
	Output Impedance		Ω		75	
IF Section	Aural Frequency		MHz		33.4   41.25	
	Visual Frequency		MHz		38.9   45.75	
	Composite IF Loop Output	Aural Carrier Level		dBmV		+20
		Visual Carrier Level		dBmV		+35
	Output/Input Impedance		Ω		75	
Video Section	Input Level		V <sub>p-p</sub>		0.6 ~ 1.5	
	Frequency Response	f <sub>v</sub> - 0.5 MHz to f <sub>v</sub> + 4.75 MHz		dB		±1.0   -
		f <sub>v</sub> - 0.5 MHz to f <sub>v</sub> + 4.2 MHz		dB		-   ±1.0
	P-P Video to RMS Hum Ratio		dB		48	
	Video S/N Ratio, Weighted		dB		58	
	Differential Gain		%		< 4	
	Differential Phase		deg		< 4	
	C/L Delay Inequality		ns		< 20	
	Over Modulation Indicator		%		87.5 ± 2.5	
Input Impedance		Ω		75		
Audio Section	Input Level for 50KHz deviation, source impedance 600 Ω		dBm		-8 ~ 10   -	
	Input Level for 25KHz deviation, source impedance 600 Ω		dBm		-   -8 ~ 10	
	Frequency Response	50 Hz to 15 KHz		dB		±3.0
		400 Hz to 10 KHz		dB		±1.0
	Pre-Emphasis-Mono		us		50   75	
	Audio S/N		dB		60	
	Total Harmonic Distortion		%		< 1	
	Over Modulation Indicator		KHz		50 ± 2   25 ± 2	
Input Impedance		Ω		10K, unbalanced		
General	Power Requirements	Voltage		V <sub>ac</sub>		110 ~ 230
		Frequency		Hz		60 / 50
	Fuse		mA		250	
	Temperature Range		°C		0 to +50	
	Power Consumption		W		12	
	Dimension		mm		483 x 44 x 285	
Net Weight		Kg		3.3		

Specifications are subject to change without notice.