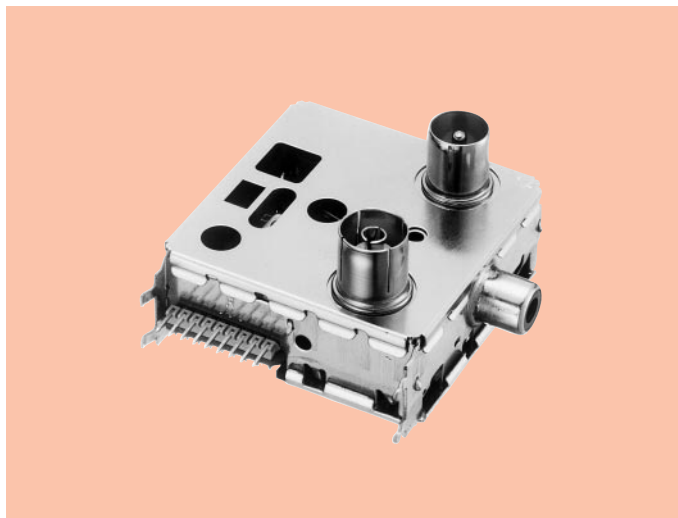


Super compact RF Modulator for VCR MDF33-UEP10A

RF Modulators

OUTLINE

MDF33-UEP10A booster-incorporated RF modulator is functionally designed by taking the VCR design into account. Its RF output can be set to optional channels out of CCIR 21~69 channels by mean of I²C control.



FEATURES

1. UHF output applies to 21-69 channels by means of I²C control (Video, AM negative modulation).
2. Conforms to CENELEC.
3. Applicable to 1 voice or 2 voice (G/K, I/K, G/I) or 3 voice (G/I/K) mechanical switches.
4. TSG is built in (I²C control).
5. Subminiaturized high-performance type.

SPECIFICATIONS

Booster Section : BST, Freq. Range 47~862MHz

Item		Specifications
		MDF33-UEP10A
Supply Voltage		5V
Current Consumption		95mA (70mA typ.)
Gain	ANT IN-TV OUT	0~6dB (3dB typ.)
	ANT IN-VTR OUT	0~6dB (3dB typ.)
V.S.W.R.	ANT IN, TV OUT	3 max. (2.2 typ.)
	VTR OUT	3 max. (2.2 typ.)

Item	Specifications	
	G-PAL	I-PAL
Supply Voltage/Tuning Voltage	5V/33V	
Current Consumption/Tuning Current	70mA (50mA typ.)/3mA (1.5mA typ.)	
Video Carrier Frequency	CCIR21~69ch, 471.25~855.25MHz (±100kHz)	
Audio Sub-Carrier Frequency	5,500±0.005MHz	6,000±0.005MHz
Video Carrier Output Level	64~72dBμ (68dBμ typ.)	
Video to Audio Level Ratio	14~20dBμ (17dBμ typ.)	
Video Input Level	1Vp-p	
Video Modulation	80±7%	
Audio Input Level	0.5Vrms (1.41Vp-p)	
Audio Modulation	50±15%	

DIMENSIONS

Technical drawing of the MTS-UM1 connector showing multiple views: top, front, side, and detail views. Dimensions are in millimeters. Key features include TV OUT, VTR OUT, ANT IN, and a 9-pin connector. A table of dimensions is provided at the bottom right.

TER	1. ANT	2. GND	3. VIDEO	4. VIDEO	5. M	6. CL	7. D
1. ANT	10	10	10	10	10	10	10
2. GND	10	10	10	10	10	10	10
3. VIDEO	10	10	10	10	10	10	10
4. VIDEO	10	10	10	10	10	10	10
5. M	10	10	10	10	10	10	10
6. CL	10	10	10	10	10	10	10
7. D	10	10	10	10	10	10	10

TERMINALS
1. AUDIO IN
2. GROUND
3. VIDEO IN
4. VT
5. MOD+B
6. CLOCK
7. DATA
8. NC
9. BST+B

$$S=1/2$$