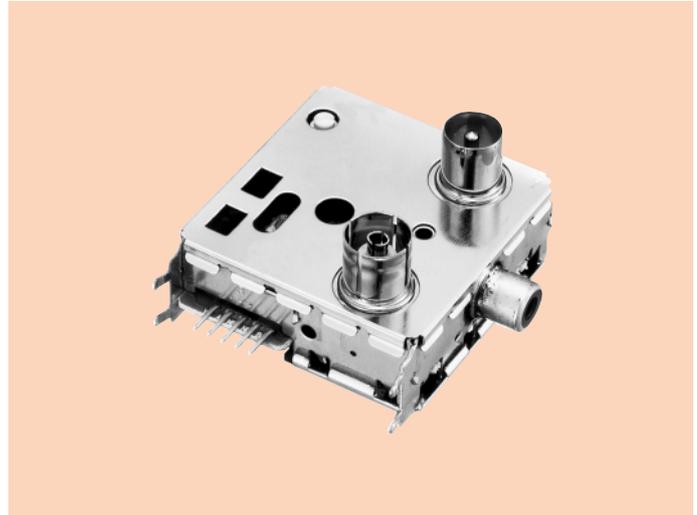


Super compact RF Modulators for VCR MDF33 Series

TV/VCR Tuners, RF Modulators

OUTLINE

MDF33 series are RF modulator integrated with a RF switch or RF booster and functionally designed in consideration of VCR design. MDF33 series is applicable to 4 standard broadcast systems for NTSC specification, PAL specification and SECAM specification.



FEATURES

1. Super compact.
2. ANT IN and TV OUT terminals are available for VCR panel terminals.
3. Can be directly mounted on P. C. board.
4. High performance.

SPECIFICATIONS

Switch Section

Item	Specifications	
	MDF33-VJ120A Japan	MDF33-VA340A America
Supply Voltage	5V	
Switching Voltage	ANT IN → TV OUT : 0V, MOD IN → TV OUT : 5V	
V.S.W.R.	3 max. (90~770MHz)	3 max. (54~890MHz)
Insertion Loss	7dB max. (90~770MHz)	7dB max. (54~890MHz)
Isolation	62dB min. (90~102MHz)	62dB min. (54~66MHz)

Booster Section

Item	Specifications	
	MDF33-UE360A Germany	MDF33-UB360A United Kingdom
Supply Voltage	5V	
Current Consumption	90mA max. (70mA typ.)	
V.S.W.R.	3 max.	
Gain (ANT IN → TV OUT, ANT IN → VTR OUT)	3±3dB	

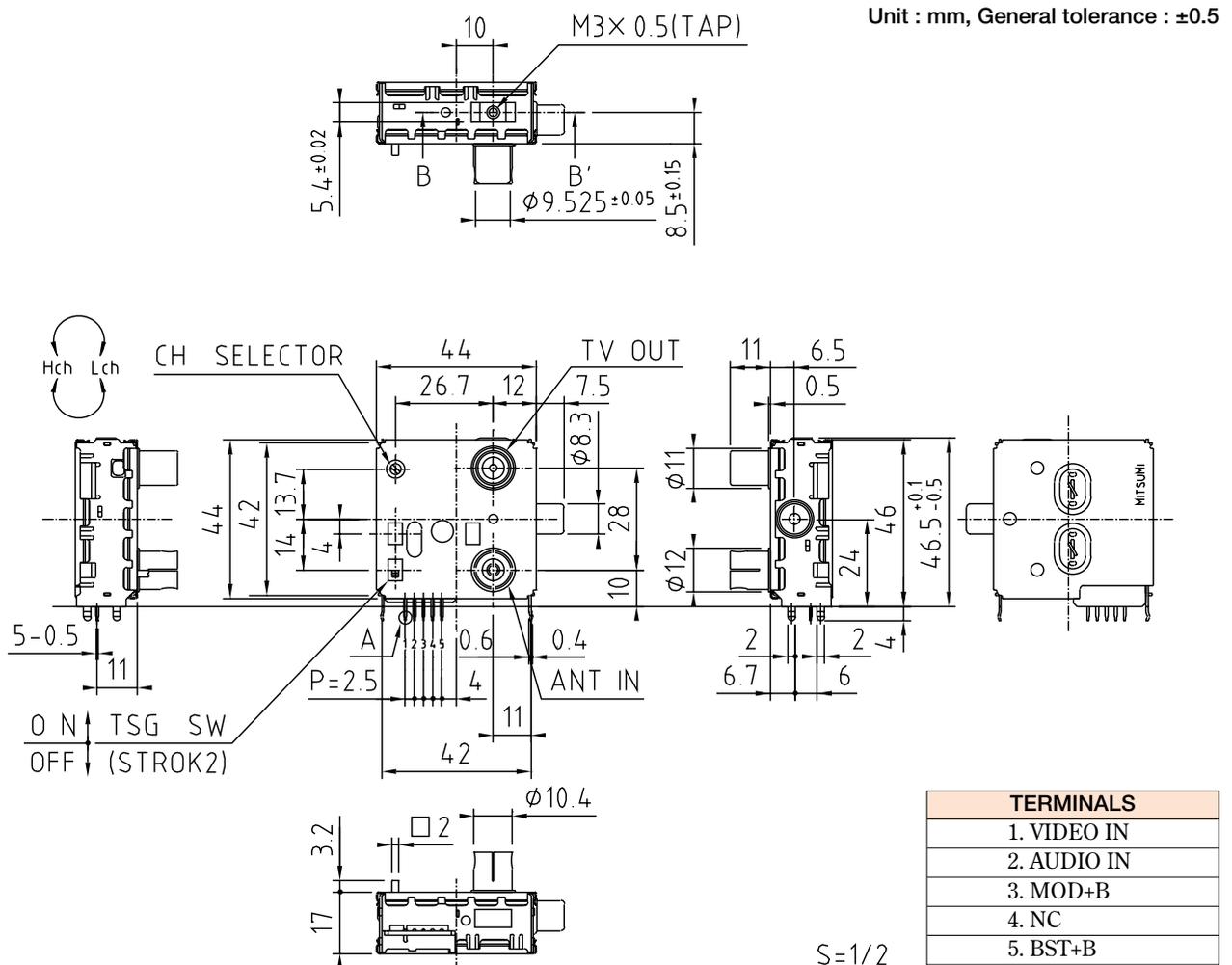
Modulator Section

Item	Specifications			
	MDF33-VJ120A	MDF33-VA340A	MDF33-UE360A	MDF33-UB360A
Supply Voltage	5V			
Current Consumption	30mA max. (15mA typ.)		50mA max. (35mA typ.)	
Video Carrier Frequency	91.250±0.140MHz 97.250±0.140MHz	61.250±0.140MHz 67.250±0.140MHz	Variable between 543.250 to 615.250MHz, centered at 591.250±0.500MHz	
Video Carrier Output	66±3dBμ		72±3dBμ	
Video Percent Modulation	80±5%		75±8%	
Audio Sub-Carrier Frequency	4.500±0.005MHz		5.500±0.005MHz	6.000±0.005MHz
Audio FM Deviation	35±7kHz		50±10kHz	
Video to Audio Level Ratio	16±3dB			
Video Carrier Frequency* Drift vs. Ambient Temperature	—		±0.550MHz	
Audio Sub-Carrier Frequency* Drift vs. Ambient Temperature	±0.015MHz			

*Specifications may be changed without notice.

*0-50°C

DIMENSIONS



TERMINALS
1. VIDEO IN
2. AUDIO IN
3. MOD+B
4. NC
5. BST+B

S=1/2