

Specification



PRODUCT: RF MODULATOR

MODEL: RF005

Preliminary specification

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TECHNOLOGY SPECIFICATIONS		MODEL:RF 005
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SUBJECT RF MODULATOR		DATE 2005/12/18
1.0 Standard Test Conditions		
1.1 Temperature	25 ± 3 °C	
1.2 Relative humidity	65 ± 5%	
1.3 Modulation Input Signal Conditions		
1.3.1 Video Input Signal Conditions	Stair-Step Signal: 1.0Vp-p · V/S = 7/3 · APL=50 %	
1.3.2 Audio Input Signal Conditions	Sine wave 1kHz : 1.0 Vp-p	
2.0 Electrical Specification		
2.1 Modulator Transmission System	NTSC-M	
2.2 Output Channel	3 /4CH (USA Channel)	
2.3 Supply Voltage	5 ± 0.3 V	
2.4 Current Consumption	35max	
2.5 Video signal Input Voltage	1.0 Vp-p	
2.6 V/S Ratio	7 ± 0.3/3 ± 0.3	
2.7 Audio Input Signal Voltage	1.0 Vp-p	
2.8 Video Input Impedance	0.7~1.3KΩ unbalanced Measurement range: 0.1MHz~4.2MHz	
2.9 Audio Input Impedance	10KΩ min. Unbalanced Measurement range: 0.1~15kHz	
2.10 Operating Temperature Range	0°C ~ +60°C	
2.11 Storage Temperature Range	-20°C ~ +70°C	
2.12 Storage Humidity Range	95% RH max.	
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3.0 Video Characteristics		
3.1 Video Carrier Frequency	61.25/67.25 ± 0.3 MHz	
3.2 Video carrier Output Level	66 ± 4dB μ V	
3.3 Video Modulation	77 %	
3.4 Differential Gain	Within 7 %	
3.5 Differential Phase	Within 7 deg	
3.6 Video S/N	45 dB min.	
3.7 Amplitude Frequency Characteristics	Within +2 dB -3 dB 0.5~4.2MHz; 1MHz= 0dB	
3.8 White Clip	≤ 99 %	
3.9 Modulation Varies by Change of APL	Within ± 3%	
4.0 Audio Characteristics		
4.1 Audio Carrier Frequency	4.5 ± 0.008 MHz	
4.2 Audio carrier Output Level	-15 ± 4dB	
4.3 Audio Modulation	70 %	
4.4 Audio S/N	45 dB min	
4.5 Audio Distortion	2 % max.	
4.6 Amplitude Frequency Characteristics	Within ± 3dB 0.1~10kHz; 1kHz= 0dB	
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<p>5.0 Out Characteristics</p> <p>5.1 Video Carrier Frequency $61.25/67.25 \pm 0.3$ MHz</p> <p>5.2 Output Level 66 ± 4dB μ V</p> <p>5.3 Audio Carrier Frequency 4.5 ± 0.008 MHz</p> <p>5.4 Audio carrier Output Level -15 ± 4dB</p> <p>6.0 Temperature Characteristics (0V~+60°C)</p> <p>6.1 Carrier stability ± 90kHz</p> <p>6.2 INT-carrier accuracy ± 8kHz</p> <p>6.3 Audio Carrier Frequency 4.5 ± 0.015 MHz</p> <p>6.4 Insertion loss 6dBmax</p>	
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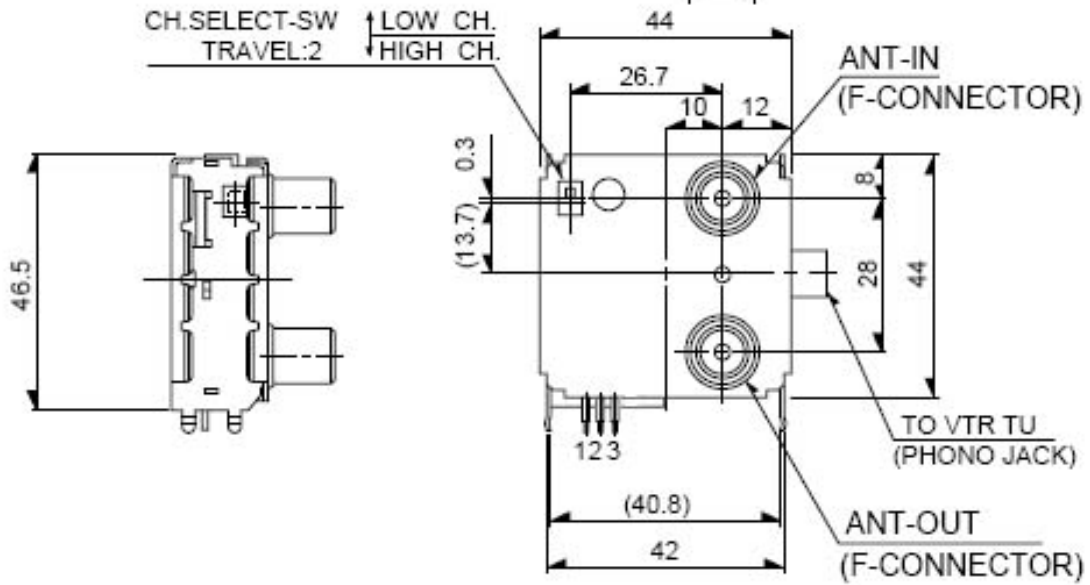
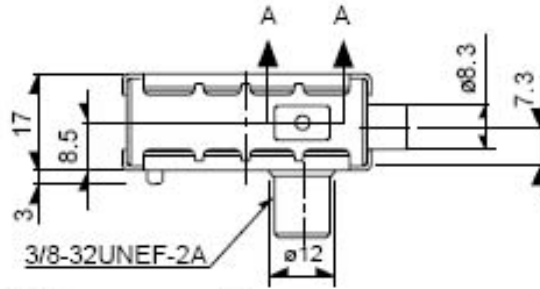
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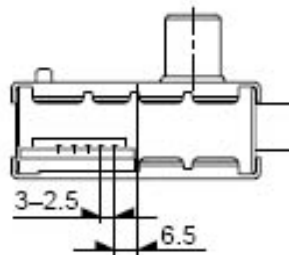
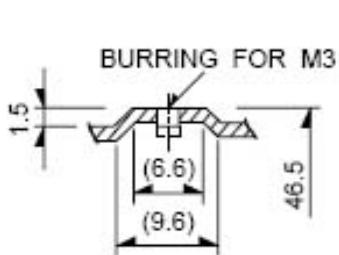
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7.0 Dimension and Pins' Function

TERMINAL NO.	TERMINAL NAME
①	VIDEO IN
②	AUDIO IN
③	MD. +B



A-A



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