

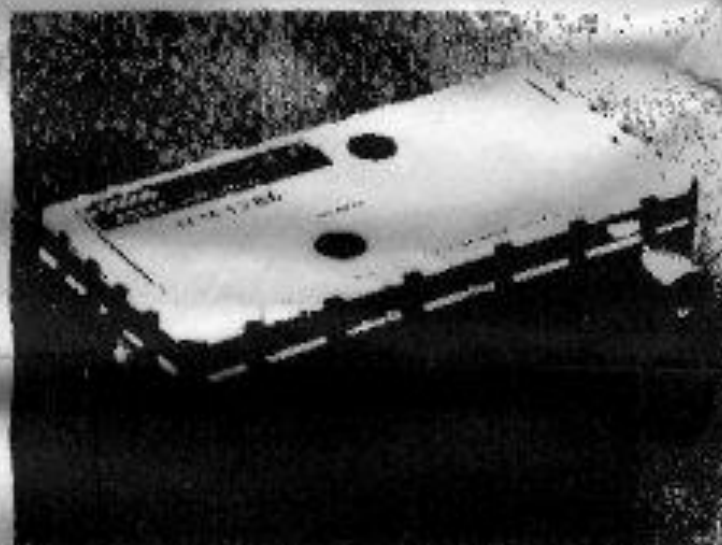
UM 1286



UHF MODULATOR WITH INTERCARRIER SOUND

FEATURES

- * GOOD MODULATION LINEARITY
- * PRETUNED VISION CARRIER CH 36
- * PRETUNED SOUND CARRIER 5.0MHz
- * EXTERNAL SUBCARRIER FINE TUNE
- * NEGATIVE TRANSFER CHARACTERISTIC
- * SUPPLY VOLTAGE 5V \pm 0.2V
- * LOW CURRENT DRAIN 9mA TYPICAL
- * LOW CHHUMA/SOUND BLAT PRODUCT
- * 75 OHM /O/P FROM A STD PHONO SKT.
- * RUGGED CONSTRUCTION
- * COMPACT & LOW PROFILE
- * DESIGNED FOR PCB INSERTION



The UM 1286 is a high performance UHF modulator with intercarrier sound facility and has been designed for general use in computer graphics, VCR applications etc., requiring wide bandwidth for colour signals.

The vision carrier is pre-tuned to channel E36 (591.250 MHz).

The integral sound sub-carrier oscillator may be pretuned to 5.5 MHz or 6 MHz and may be finely adjusted for each individual TV set (if required).

Separate balanced modulator circuitry is used to provide excellent linearity and very low content of unwanted mixing products.

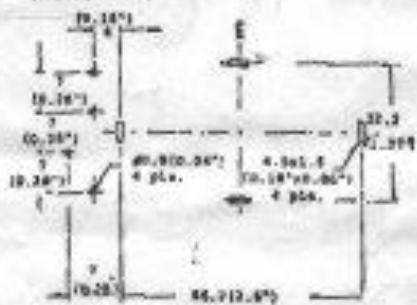
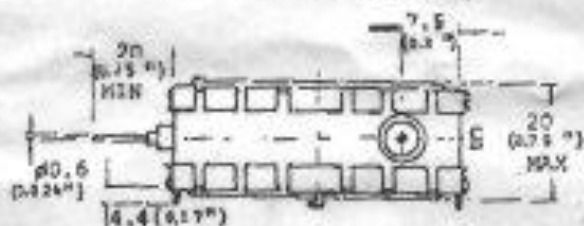
The colour sub-carrier/sound sub-carrier beat product is typically -55dB with respect to carrier thus resulting in interference free pictures.

SPECIFICATIONS

Input Voltage	$5V \pm 0.2V$	Volts
Vision Carrier Ch. E38	59.25 ± 5	MHz
Sound Subcarrier at $V_f = 3.2V$	6.0 ± 0.02	MHz
Supply Current	9.0	mA
RF Output, V mod = 2.2V (HI)	2.0	mV \pm 6dB
RF Output, V mod = 2.8V (LO)	< 14	- dB w.r.t. V_o (HI)
Sound subcarrier Level	21 ± 6	- dB w.r.t. V_o (HI)
Audio Deviation Sensitivity	10 ± 2.5	KHz/V
3dB Bandwidth	> 8.0	MHz
RF Output Impedance	75	ohms
Voltage Standing Wave Ratio	< 2.5	
Oscillator Stop Voltage	< 3.5	Volts
Video Input Impedance	1.5K	ohms at V_o (HI)
Chroma/Sound Carrier Beat	< 50	- dB w.r.t. V_o (HI)
Spurious Output	< 10	- dB w.r.t. V_o (HI)



PCB MOUNTING DETAILS



- 1 VIDEO INPUT
- 2 + 5 VOLTS
- 3 AUDIO INPUT
- 4 FINE TUNE

TYPICAL TRANSFER CHARACTERISTIC

