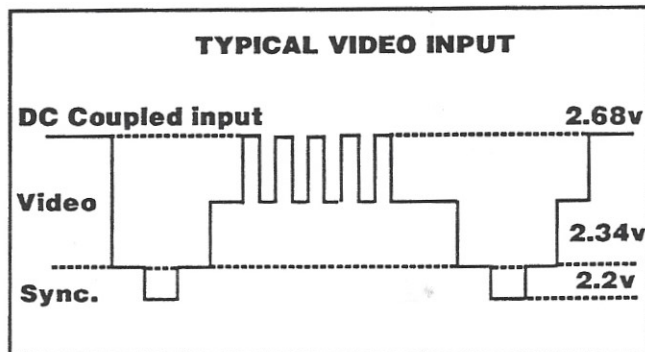
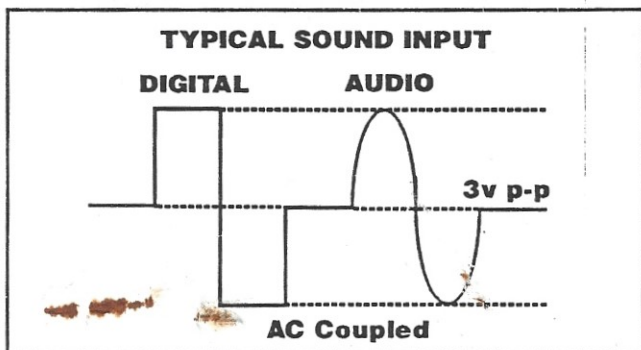


# ASTECC UM 1662

## UHF MODULATOR WITH INTERCARRIER SOUND

### DESCRIPTION

The UM1662 is a high performance intercarrier modulator which is primarily intended for use in colour TV games and computer graphics. The UM1662 has good modulation depth, bandwidth and subcarrier intermodulation figures. Good subcarrier intermodulation performance minimises the On Screen Bar Pattern due to chroma and sound subcarrier beats.



### ELECTRICAL SPECIFICATION

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
Fc (E36)	Vision Carrier Ch. E36	586.25	591.25	596.25	MHz
Fsc	Sound Subcarrier at Vf=3.2v	2.980	6.000	6.020	MHz
Icc	Supply Current	---	9.0	14.0	mA
Vo (HI)	RF Output, Vmod=2.2V	1.0	2.0	3.0	mV
Vo (LO)	RF Output, Vmod=2.8V	---	-20	-14	dB w.r.t. Vo (HI)
Vosc	Sound Subcarrier Level	-25	-20	-15	dB w.r.t. Vo (HI)
AF Sens	Audio Deviation Sensitivity	15	20	25	KHz/V
BW	3dB Bandwidth	8	---	---	Mhz
Zo	RF Output Impedance	---	75	---	Ohms
VSWR	Voltage Standing Wave Ratio	---	---	2.5	---
Vosc Min	Oscillator Stop Voltage	---	---	3.5	Volts
Zin	Video Input Impedance	---	1.5K	---	Ohms @ Vo (HI)
1.57MHz	Chroma/Sound Carrier Beat	---	-60	-50	dB w.r.t. Vo (HI)
Vo (SP)	Spurious Output	---	-36	-30	dB w.r.t. Vo (HI)
AFc	Vcc Change 5V +/- 0.2V	---	+/-0.5	+/-1.0	MHz
Vcc	Operating Supply Voltage	4.80	5.00	5.20	Volts

### FEATURES

Good Modulation Linearity and Stability :- Pretuned Vision Carrier E36 :- Pretuned Sound Subcarrier :- External Sound Subcarrier Fine Tune (Optional) :- Negative Transfer Characteristic :- Supply Voltage 5V +/- 0.2V :- Low Current Drain (9mA Typical) :- Low Chroma / Sound Beat Product (55dB Typical) :- 75 Ohm Output From a Standard Phono Socket :- Compact Rugged Design For PCB Insertion :- For Colour Applications.

#### PIN ASSIGNMENT

1. Vmod
2. Vcc (5v)
3. Audio (3Vpp)

