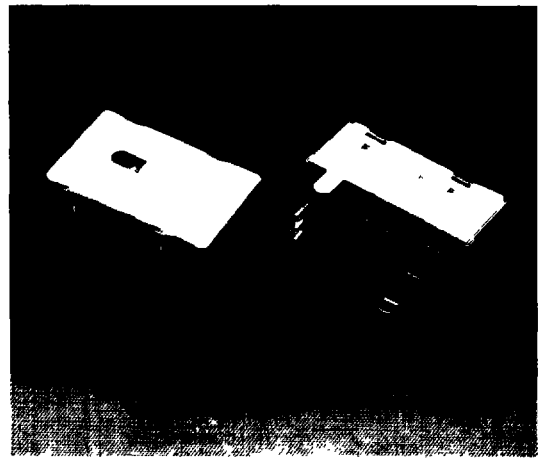
INFRARED REMOTE CONTROL RECEIVER MODULES

LTM-9341 SERIES SIDE VIEWING

FEATURES

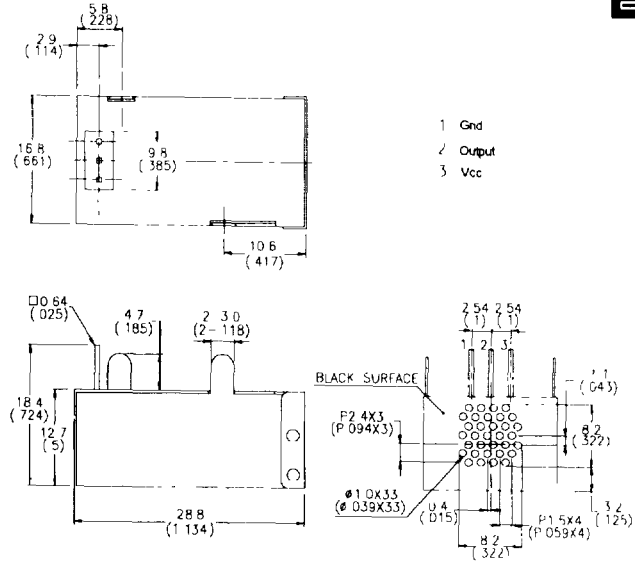
- EASY TO HANDLE SMALL TYPE MODULE
- EXCELLENT MECHANICALLY STRENGTH AND ELECTRICAL STABILITY
- CAN BE INSTALLED DIRECTLY TO EQUIPMENT
- RECEIVE INFRARED FLASH PULSES



DESCRIPTION

- The module is a small type infrared remote control system receiver which has been developed and designed by utilizing the latest hybrid technology
- It is a single unit type module which incorporates a PIN diode and a receiving preamplifier IC
- It can be used for TVs,VTRs,audio equipment,air conditioners,car stereo radio,toys,home computers and all other equipments requiring remote control

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25mm (.010") unless otherwise noted.

TECHNICAL INFORMATION

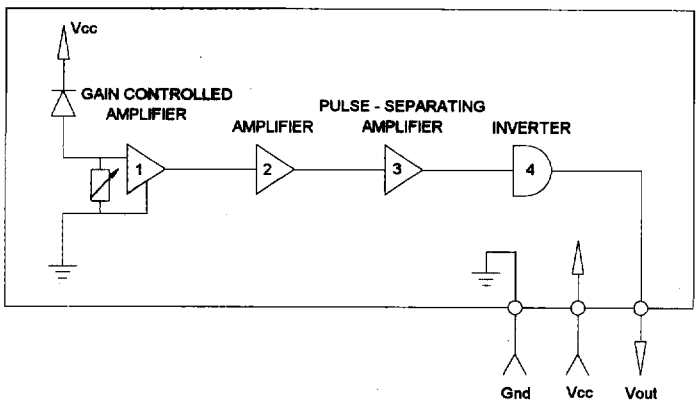
1.ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

• Supply voltage	Vcc	6.3	V
• Storage temperature	Tstg	-20 to +60	℃
• Operating temperature	Topr	-10 to +60	℃

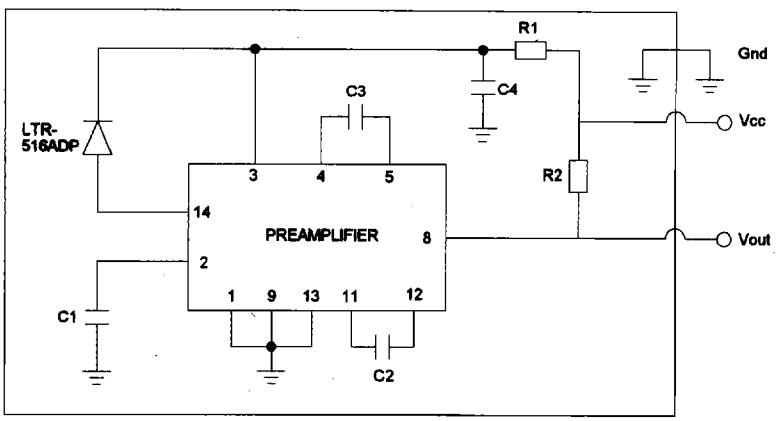
2.RECOMMENDED OPERATING CONDITION

• Supply voltage	Vcc	4.7 to 5.3	V

3.MODULE SCHEMATIC



4.EQUIVALENT CIRCUIT



5.MEASURING METHOD

A. Standard transmitter·
The transmitter whose output is adjusted up become Vo=800 mVp-p by the output waveform as shown in Fig.1 and using the measuring method as shown in Fig 2 is specified as the standard transmitter However, the infrared diode to be used for the transmitter should be λ peak=940nm, Δλ =50nm.

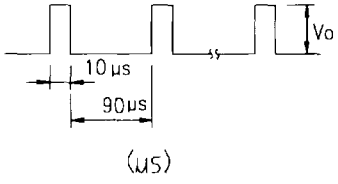


Fig 1 Output waveform

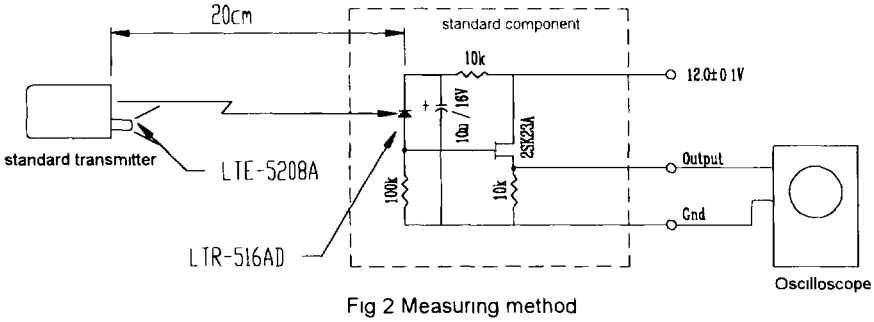


Fig 2 Measuring method

B. Arrival distance measuring condition as shown in Fig.3

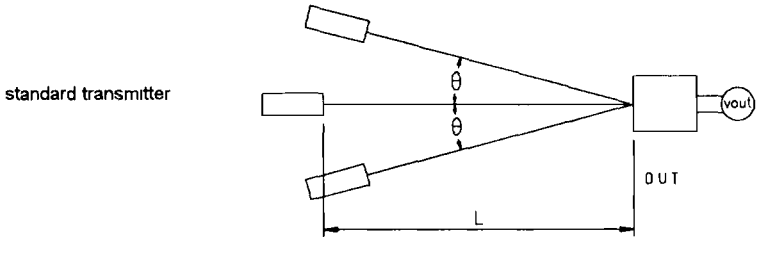


Fig.3 Arrival distance L measuring condition

C. Pulse width measuring condition

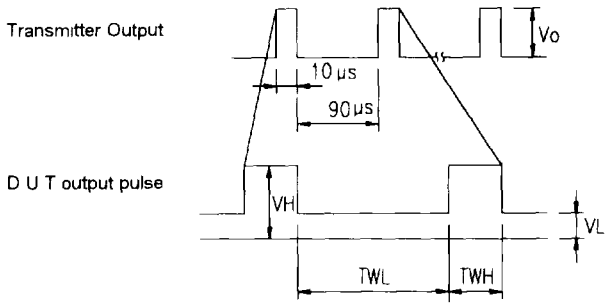


Fig.4 Output pulse

6.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	RATING			UNIT
			MIN.	TYP.	MAX.	
Current consumption	Icc	Non-signal input		1.0	2.5	mA
Arrival distance	L	At the ray axis		8		m
		The ray receiving surface at a vertex and in relation to the ray axis: a. In the range of 30° cone b. In the range of 45° cone		7 5		m
Low level output voltage	VL	30 cm over the ray axis			0.5	V
High level output voltage	VH	30 cm over the ray axis	4.5			V
Low level pulse width	TWL	Specified by the output TWL period within a range from 5cm to the arrival distance (Average value of 50 pulses)	—	90	—	μS
High level pulse width	TWH	Specified by the output TWH period within a range from 5cm to the arrival distance (Average value of 50 pulses)	—	10	—	μS

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