

INFRARED PRODUCTS

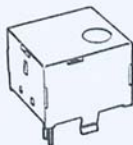
(Optic Receiver Modules)

REV.A
DATE 2003/7/1

▣ DEVICE NO: IR-310N

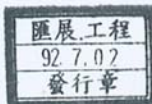
▣ FEATURE:

- Direct installation with mounting features.
- Build in newest, exclusive IC.
- Easy use.
- plastic case in small dimension.



▣ APPLICATION:

Infrared receiver module for remote control (CD player, fan, light, TV, VCR....).



▣ ABSOLUTE MAXIMUM RATINGS:

T_A=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Supply Voltage	V _{cc}	6	V
Operating Temperature	T _{opr}	-15 ~ +75	°C
Storage Temperature	T _{stg}	-25 ~ +75	°C
Soldering Temperature 260°C (3mm from case bottom for 5 seconds)			

▣ ELECTRIC-OPTICAL CHARACTERISTICS:

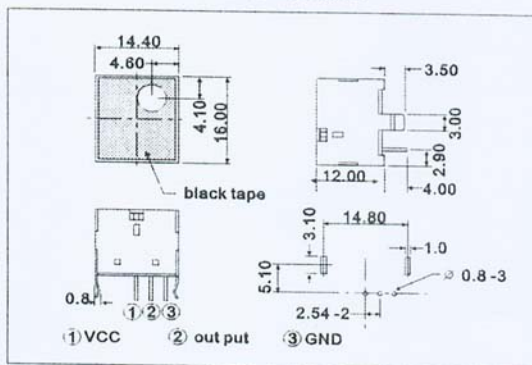
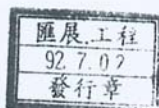
T_A=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V _{cc}		4.5	5.0	5.5	V
Current Consumption	I _{cc}	no signal input	---	1.0	---	mA
Detection Length	L	when burst wave in following illustration is transmitted via standard transmitter.	10	15	13-	M
High Level Voltage	V _h		4.7	5.0		V
Low Level Voltage	V _l		-	0.2	0.4	V
Sensitivity Peak Wavelength	λ			940		nm
Tuning Frequency				38		KHz
Out Put form	Active Low Output					

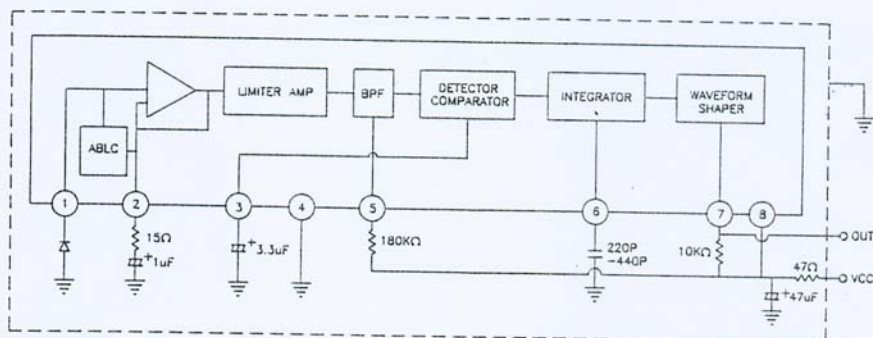
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(Optic Receiver Modules)

IR-310N SERIES

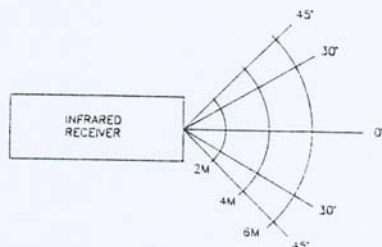


Circuit Diagram



Testing Alignment for Infrared Receiver

Dstandard Pulse Width



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INFRARED PRODUCTS

(Optic Receiver Modules)

Test and Application

Test and application Diagram

(Module without RC Filter)

When the Vcc can not be controlled in the range of 4.7~5.3V,
a RC filter can be added as shown in the diagram.

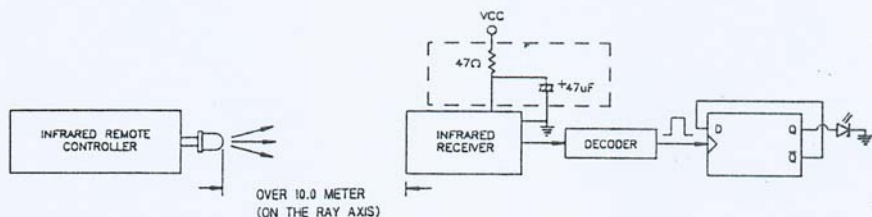
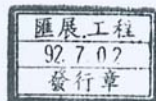
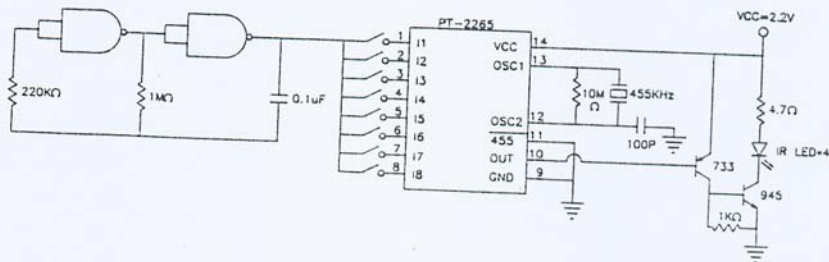


Diagram og Testing Circuit

Teansmit Portion



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