HABNAHA HALAV B

139-877

OPTIC REMOTE CONTROL RECEIVER MODULE SPECIFICATION

1. Application

This specification is applied to optic remote control receiver module PIC-26043SM which will be delivered to PAVER COMPONENTS Plc .

2. Dimentions

As per attached drawing (KCTS-626043-3).

3. Ratings and characteristics

3-1. Maximum ratings

Item	Symbol	Ratings	Unit	Remarks				
Supply voltage	Vcc	5.8	V					
Operating temperature	Topr	-10~+60	°C-	No dewfalk				
Storage temperature	Tstg	-20~+75	°C					
Soldering temperature	Tsd	260	°C	t≤5s,2mm from lead foundation				

3-2. Electro-optical characteristics

 $(Ta=25^{\circ}C, Vcc=5V)$

Item	Symbol	Min.	Typ.	Max.	Unit	Remarks		
Current consumption	Icc			5.0	m A	Under no signal		
Peak wavelength	λр	"	940		nm	Note 1		
Tuning frequency	fo		37.9		kHz	Note 1		
Output form	l	- active	e low ou					
H level output voltage	Voh	4.2			V	Note 1		
L level output voltage	Vol			0.5	V	Note 1		
H level output pulse width	Twh	400		800	μs	Note 1		
L level output pulse width	Twl	400		800	μs	Note 1		
Distance between emitter & detector	- l	10.0			m	Note 1		
Half angle	Δθ		± 45		deg	Horizonal direction		

3-3. Recommendable operating supply voltage

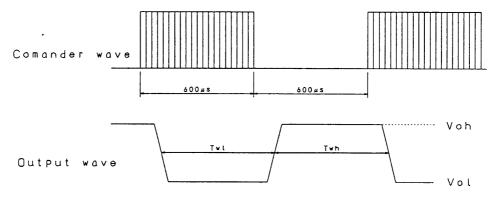
Supply voltage

4.5~5.5V

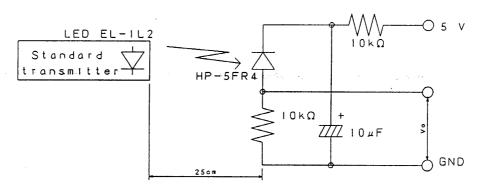
- Note 1. Distance between emitter & detector specifies maximum distance that output wave form satisfies the standard (3-2) under the conditions below against the standard transmitter.
 - (1) measuring place ·····Indoor without extreme reflection of light.
 - (2) Ambient light source. Detecting surface illumination shall be $200\pm50 Lux$ under ordinary white fluorescense lamp of no high frequency lightning.
 - (3) Standard transmitter. Burst wave indicated in drawing 3-1 of Standard transmitter shall be arranged to 50mVp-p under the measuring circuit specified in drawing 3-2.

PIC - 26043SM

Carrier fo=37.9 KHz Duty 50%



drawing 3-1 Burst wave, Output wave



drawing 3-2 Po measurement circuit

4. Reliability

Test item	Test condition							
High temparature	Ta=+60℃ Vcc=5.0V t= 240	H Note	2.					
High temp. & high hum	Ta=+40°C 90%RH Vcc=5.0V t= 240 }	H Note	2.					
Low temparature	$Ta = -10^{\circ}C \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	H Note	2.					
Heat cycle	-20°C (0.5H) ~+75°C (0.5H) 20cycle	Note	2.					
Dropping	Test devices shall be dropped 3 times naturally	Note	3.					
	ontohard wooden board from a 75cm height position.							

- Note 2.3-2 (electro-optical characteristics) shall be satisfied after leaving 2hours in the normal temperature.
- Note 3.3-2 (electro-optical characteristics) shall be satisfied and no conpicuous deforms and destructions of appearance (excepting deforms of terminals)

5. Inspection standard

- 5-1. Among electrical characteristics, total number shall be inspected on items blow.
 - 1. front distance between emitter & detector
 - 2. Current consumption
 - 3. H level output voltage
 - 4. L level output voltage
- 5-2. Items except above mentioned are not inspected particularly, but shall fully stisfy
- 6. Caution (When use and storage of this device)
 - 6-1. Store and use where there is no force causing transformation or change in quality.
 - 6-2. Store and use where there is no corrosive gas or sea(salt) breeze.
 - 6-3. Store and use where there is no extreme humidity.
 - 6-4. Solder the lead-pin within the condition of ratings. After soldering do not add extsrios force.
 - 6-5. Do not wash this device. Wipe the stains of diode side with a soft cloth, you can use the solvent, ethylalcohol or methylalcohol or isupropylene only.
 - 6-6. To prevent static electricity damage to the Pre-AMP make sure that the human body , the soldering iron is connected to ground before using.
 - 6-7. Put decoupling device between Vcc and GND for reduse the noise from power supply line.
 - 6-8. The performance of remote-control system depends on environments condition and abilty of periferal parts. Customer should evaluate the performance as total system in those conditions after system up with components such as commander, micon and this receiver module.

7. Guarantee period and scope

7-1. Guarantee period

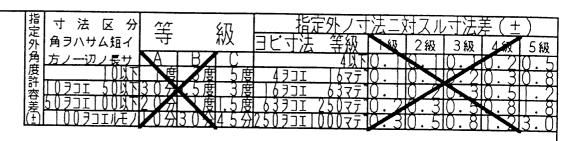
One year after delivery to desired place.

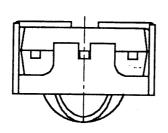
7-2. Guarantee scope

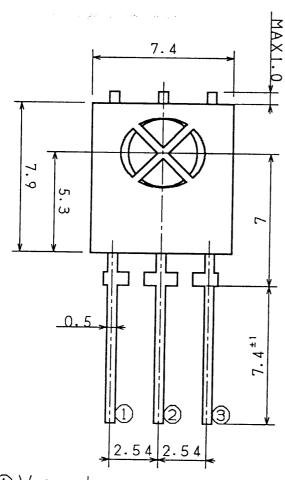
A re-delivery of goods will be carried out if the cause of malfunction lies in our device. However no responsibilities will be taken for the inconveniences caused by the malfunction of our devices.

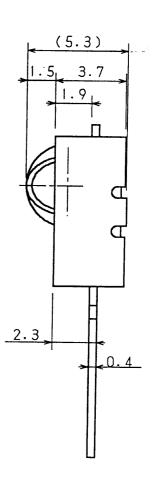
8.Others

- 8-1. This device is not design to endure radiative rays and heavily charged particles.
- 8-2. In case where any trouble or questions arise, both parties agree to make ful discussion covering the said problem.









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					72	Lis			EMOT	E CONTR	OL RECE	IVER M	ODULE	5/1	97.	04.01
	付	改	訂	———	項	担	当	R #	Ρ	IC-26	0435	M		美面免现		
ļ								承	-:R- :0ñ	検図	製図	M 42	T(株	/ 亦則		* 二 次 记
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