



NOTE:

1.PIN CONFIG

①GND

②Vout

③Vcc

2.G.T±0.3

(UNIT: mm)

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage	VCC		7	V
Supply Current	ICC		3	mA
Output Voltage	Vout		7	V
Output Current	Iout		2.5	mA
Operating Temperature	Tamb	-25	85	°C
Storage Temperature	Tstg	-40	125	°C
Soldering Temperature	Tsol	260, t<5 sec		°C

Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	VCC	2.7		6	V
Input Frequency	fin		37.9		kHz
Operating Temperature	Tamb	-20	25	80	°C

Electrical Specifications (Vcc=5V, Tamb=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	
Supply Current	ICC	0.5	1.2	1.7	mA	
Max input current	IIN	0.5	1.0	1.5	mA	Vin=0
Output Voltage	Voh	4.8	5.0		V	
	Vol		0.2	0.4	V	
Max. Voltage Gain	Av	70	76	82	dB	fin=37.9kHz Vin=30μVpp
Max. value of variable gain	Gavmax		40		dB	
Min. value of variable gain	Gavmin		-10		dB	
Internal Pull-up Resistor	Rpul		40		kΩ	
BPF Bandwidth	fbw		3.5		kHz	fin=37.9kHz Vin=30μVpp
BPF frequency	fc	-3.5	Fo	+3.5	%	
Output Pulse width	Tpw	500	600	700	μS	Vin=500 μVpp *Fig.1
Arrival Distance (L)	0°	10	15		m	200 ± 50 Lux
	±45°	7	10			