

[查询KSM-601LN供应商](#)

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Optic receiver modules

KODENSHI

KSM - 60 ** LN · KSM - 70 ** LN

The KSM - 60**LN consist of a PIN Photodiode of high speed and a preamplifier IC in the package as an receiver for Infrared remote control systems

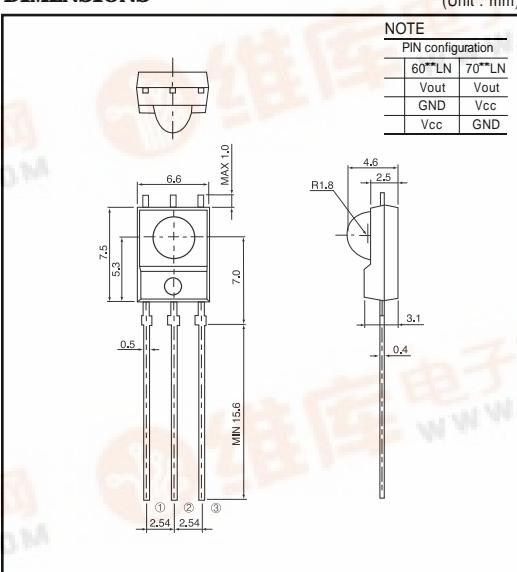
FEATURES

- One mold small package
- 5 Volt supply voltage, low power consumption
- Shielded against electrical field disturbance
- High immunity against ambient light
- Easy interface with the main board
- TTL and CMOS compatibility

APPLICATIONS

- TV, VTR, Acoustic Devices, Air Conditioners, Car Stereo Units, Computers, Interior controlling appliances, and all appliances that require remote controlling

DIMENSIONS



MAXIMUM RATINGS

(Ta=25 Unless otherwise noted)

Parameter	Symbol	Rating	Unit
Supply Voltage	Vcc	5.5	V
Operating Temperature	Topr.	-10 ~ +60	
Storage Temperature	Tstg.	-20 ~ +75	
Soldering Temperature	Tsol.	260(Max 5 sec)	

B.P.F CENTER FREQUENCY

Model NO.	B.P.F Center Frequency(kHz)
KSM - 1 LN	40.0
KSM - 2 LN	36.7
KSM - 3 LN	37.9
KSM - 4 LN	32.7
KSM - 5 LN	56.9

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25), Vcc=5.0V

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Supply Voltage	Vcc		4.5	5.0	5.5	V
Current Consumption	Icc	Input Signal=0	-	1.2	2.5	mA
Peak Wavelength *1	p		-	940	-	nm
B.P.F Center Frequency	fo		-	37.9	-	kHz
Transmission Distance *1	L	200±50lx ±30°	0, 10 7	- -	- -	m
H Level Output Voltage *1	Voh	30cm over the ray axis	4.5	5.0	-	V
L Level Output Voltage *1	Vol		-	0.1	0.5	V
H Level Output Pulse Width *1	TwH	Burst Wave=600 μs	500	600	700	μs
L Level Output Pulse Width *1	TwL	Period=1.2ms	500	600	700	μs
Output Form			Active Low Output			

Note : *1. It specifies the maximum distance between emitter and detector that the output waveform satisfies the standard 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 irradiate 200±50lx under ordinary white fluorescence lamp without high frequency lightning

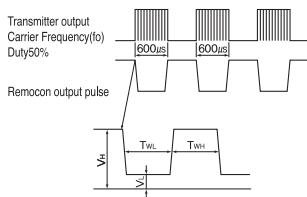
3) Standard transmitter : Burst wave of standard transmitter shall be arranged to 50mVp-p under the measuring circuit

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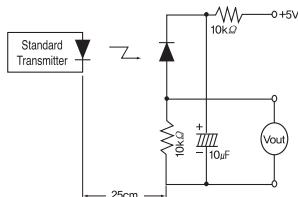
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MEASURING METHOD

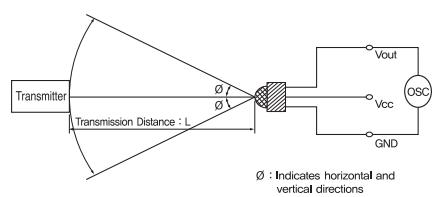
Output Pulse Width



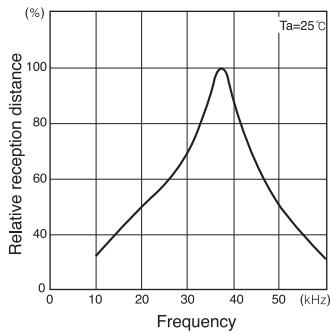
Standard Transmitter



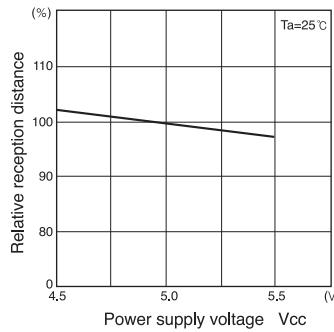
Test Condition of Transmission Distance



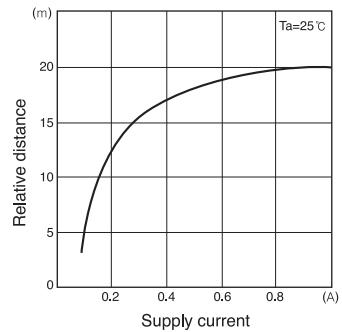
**Relative reception distance Vs.
Frequency(37.9kHz)**



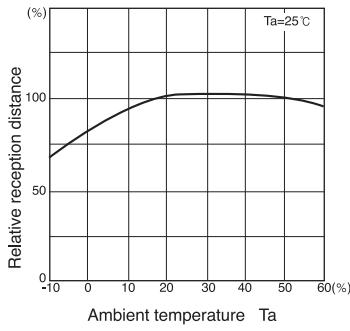
**Relative reception distance Vs.
Power supply voltage**



**Relative distance Vs.
Supply current**



**Relative reception distance Vs.
Ambient temperature**



Radiant pattern

