

IR Transceiver Module KOI-6002A

Description

The KOI-6002A is an IrDA transceiver module for low power standard Ver 1.4. It is compliant to the SIR data communication, supporting speeds up to 115.2Kbps. KOI-6001A is specifically designed to ultra-miniature package, suited for use in cellular phone, PDA and ATM.



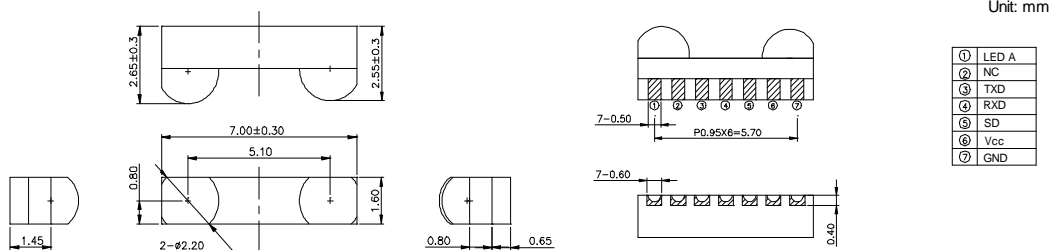
Features

- Wide Operating Voltage: 2.7 ~ 5.5V
- Low Power SIR Compliant
- 9.6 ~ 115.2Kbps Data Rates
- Compact Package Intergrated Transmitter and Receiver (7.0Lx2.8Wx1.6H)

Application

- Cellular/ Smart Phone
- Personal Computer(Desk-top PC, Lap-top PC)
- Printer, Vending Machine, ATM
- PDA(Personal Digital Assistant)

Outline Dimensions



Characteristics

[Ta = 25 °C]

Parameter	Symbol	Condition	Charateristics(Typ.)	Unit	
Operating Voltage	Vopr.	-	2.7 ~ 5.5	V	
Data Rates	T	-	9.6 ~ 115.2	kbit/s	
Distance	D	-	200 <	mm	
Supply Current	I _{cc}	Idle Status	100	μA	
Transmitter	Pulse Width	T _{stpw}	tpw=1.63μs	1.7	μs
	Rise Time	t _r	@115.2kbit/s	30	ns
	Fall Time	t _f	"	30	ns
	Emission Wavelength			875	nm
Receiver	Pulse Width	T _{srpw}	tpw=1.63μs	< 4	μs
	Rise Time	t _r	@115.2kbit/s	< 100	ns
	Fall Time	t _f	"	< 100	ns