

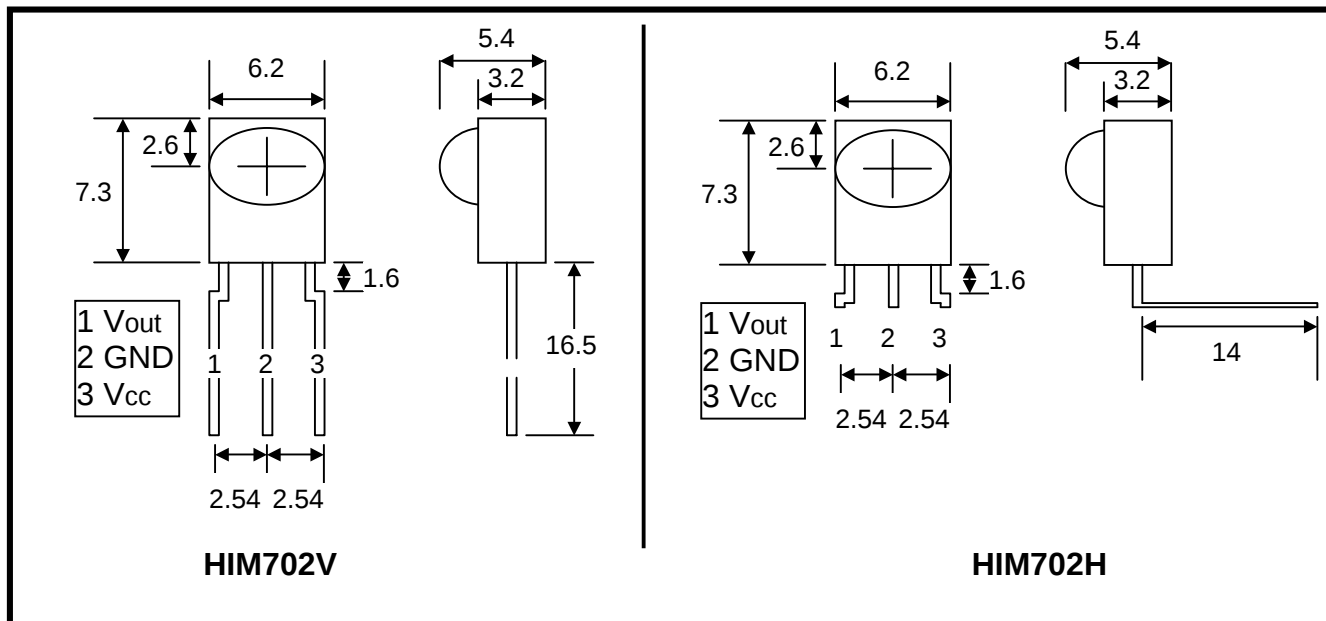
HIM702-

Low Power Infrared Remote Control Receiver



● Features

- Wide reception angle
- Long reception distance
- Good EMI protection
- Side and top view devices
- Low Power Consumption
- Low Voltage Operation



● Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Rated Value	Unit
Supply voltage	V_{CC}	6.3	V
Operating temperature	T_{opr}	-25 to +75	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-25 to +85	$^{\circ}\text{C}$
Soldering temperature	T_{sol}	260	$^{\circ}\text{C}$

● Electro-Optical Characteristics ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Supply Voltage	V_{CC}	2.4		5.5	V
Supply Current	I_{CC}		0.43	0.6	mA
Reception Distance	d	8	15		m
Peak Wavelength	λ_p		940		nm
Half intensity angle (Horizontal)	θ_h		50	60	degree
Half intensity angle (Vertical)	θ_v		35	50	degree
BPF Centre Frequency	FO		38		kHz
High Level Output Voltage	V_{oh}	2.8			V
Low Level Output Voltage	V_{ol}		0.2	0.5	V
High Level Pulse Width	T_{wh}	400		850	us
Low Level Pulse Width	T_{wl}	350		800	us

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HERO ELECTRONICS LIMITED, DUNSTABLE STREET, AMPHILL, BEDFORDSHIRE, MK45 2JS, ENGLAND

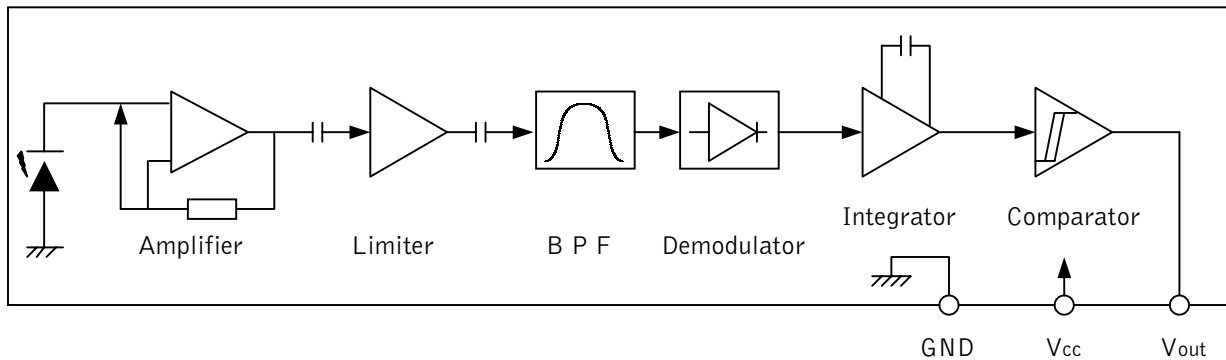
TEL: 01525 405015

Email: sales@heroelec.co.uk

FAX: 01525 402383

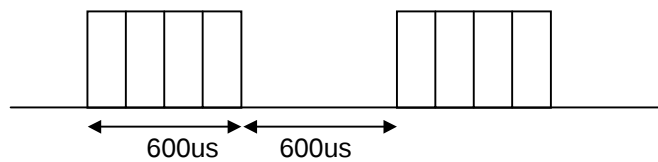


● Schematic Diagram

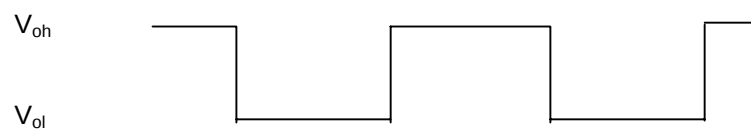


Transmission Waveform

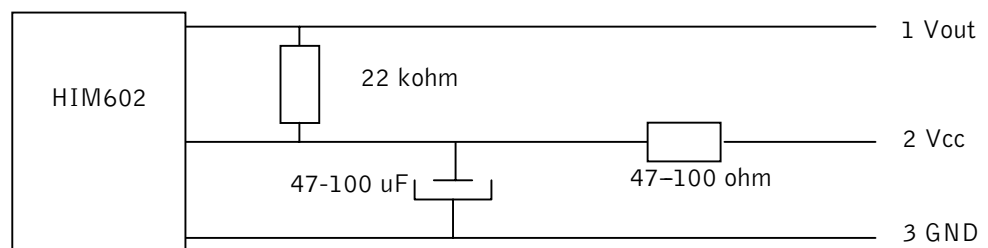
Carrier Frequency 38kHz
Duty 50%



Output Pulse



In the case of a noisy power supply, the following additional components are recommended.



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