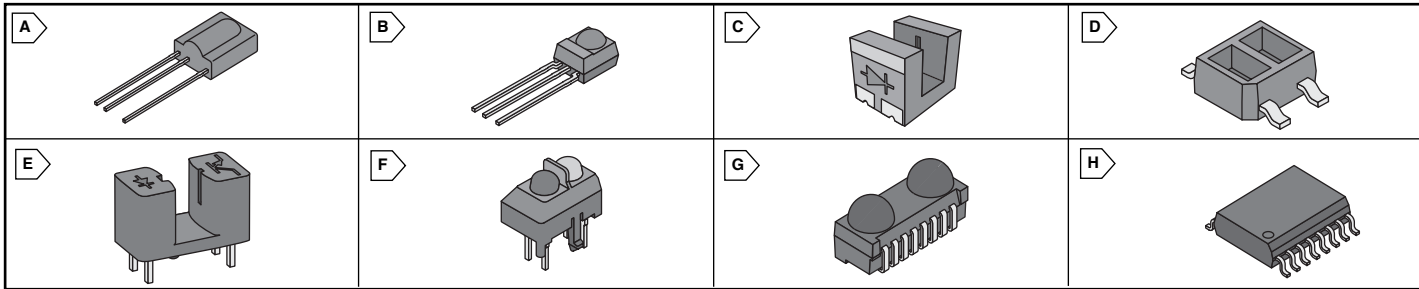


VISHAY Opto Components



RECEIVERS (CONT.)



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Supply Voltage (V)	Supply Current (Typ.) (mA)	Carrier Frequency (kHz)	Trans. Dist. (m)	Cont. Data Trans.	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each				
Mfr.	Mfr. Part No.										1	100	500	1000	
Thru-Hole															
	782—TSOP1156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/- 45	=>6	1.16	.93	.77	.67	
	782—TSOP2136	A	4.5 to 5.5	1.2	36.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP2138	A	4.5 to 5.5	1.2	38.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP2156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP4136	A	4.5 to 5.5	1.2	36.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP4138	A	4.5 to 5.5	1.2	38.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP4156	A	4.5 to 5.5	1.2	56.0	35.0	4000 bits/sec	50.0	+/-45	=>6	1.16	.93	.77	.67	
	782—TSOP1236	A	4.5 to 5.5	0.6	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP2236	B	4.5 to 5.5	1.2	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP2238	B	4.5 to 5.5	1.2	38.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP2256	B	4.5 to 5.5	1.2	56.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP4830	B	4.5 to 5.5	1.1	30.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP4836	B	4.5 to 5.5	1.1	36.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP4838	B	4.5 to 5.5	1.1	38.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP4840	B	4.5 to 5.5	1.1	40.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	
	782—TSOP4856	B	4.5 to 5.5	1.1	56.0	35.0	800 bits/sec	50.0	+/-45	=>10	1.10	.88	.73	.64	

SENSORS



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	VCEO (min) (V)	@ IC (mA)	Forward Voltage (typ.) (V)	Reverse Current (max.) (uA)	Resolution (mm)	Aperture (mm)	Dist./Gap (mm)	Rise/Fall Times (typ.) (us)	Price Each				
Mfr.	Mfr. Part No.										1	100	500	1000	
Surface Mount															
	782—TCPT1200	C	70	1	1.2	10.0	0.24	0.3	2.0	20/30	1.31	1.05	.86	.76	
	782—TCNT1000	D	30	1	1.2	10.0	-----	-----	1.0	20/20	1.34	1.07	.88	.78	
Thru-Hole															
	782—TCST1230	E	70	1	1.25	-----	0.4	0.5	3.0	15/10	.74	.59	.49	.43	
	782—TCRT5000	F	70	1	1.25	-----	-----	-----	12.0	-----	.76	.60	.50	.44	

IrDA - TRANSCEIVERS



RoHS Compliant

For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Type	Operating Voltage (V)	Supply Current (mA)	Data Rate (min/max) (kbits/s)	Transmit Distance (m)	Logic Voltage (V)	Output Sink Current (mA)	Power Dissipation (max) (mW)	Price Each				
Mfr.	Mfr. Part No.										1	100	500	1000	
Surface Mount															
	782—TFDU4100	G	Serial	2.7 to 5.5	1.3	2.4/115.2	0.3 to 3.0	Vlog=VCC	25.0	200.0	4.72	3.77	3.11	2.74	
	782—TFDU4300	G	Serial	2.4 to 5.5	0.0001	2.4/115.2	0 to 0.7	Vlog=> 1.5V	25.0	250.0	2.42	1.94	1.60	1.41	
	782—TFDU5103	G	Fast	2.7 to 5.5	0.0005	576/1152	0 to 1.0	Vlog=VCC	25.0	500.0	3.47	2.77	2.29	2.01	
	782—TFDU5307	G	Fast	2.7 to 5.5	0.0005	576/1152	0 to 1.0	Vlog=> 1.5V	25.0	500.0	3.83	3.06	2.52	2.22	
	782—TFDU6102	G	Fast	2.7 to 5.5	3.0	-----/4000	0 to 1.0	Vlog=VCC	25.0	500.0	3.83	3.06	2.52	2.22	
	782—TFBS6614	G	Fast	2.7 to 5.5	1.6	-----/4000	0 to 1.0	Vlog=> 1.5V	25.0	500.0	3.95	3.16	2.61	2.29	

IrDA - ENCODER/DECODER

The TOIM4232 Endec IC provides proper pulse shaping for the SIR IrDA front end infrared transceivers as of the 4000-series. For transmitting the TOIM4232 shortens the RS232 output signal to IrDA compatible electrical pulses to drive the infrared transmitter. In the receive mode the TOIM4232 stretches the received infrared pulse to the proper bit width depending on the operating bit rate. The IrDA bit rate varies from 2.4 kbit/s to 115.2 kbit/s. The TOIM4232 is using a crystal clock 3.6864 MHz for its pulse stretching and shortening. The clock can be generated by the internal oscillator. An external oscillator can be used too. The TOIM4232 is programmable to operate from 1200 bit/s to 115.2 kbit/s by the communication software through the RS232 port. The output pulses are software programmable as either 1/627 us or 3/16 of bit time. The typical power consumption is very low with about 10 mW in operational state and in the order of a few microwatts in standby mode.



RoHS Compliant

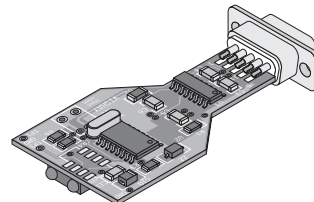
For quantities of 2000 and up, call for quote.

MOUSER STOCK NO.		Fig.	Type	Operating Voltage (V)	Input Voltage (High/Low) (Typ) (V)	Output Voltage High/Low (Min/Max) (V)	Data Rate (Min/Max) (kbits/s)	Consumption Current Standby (Max) (nA)	Consumption Current Dynamic (Typ) (mA)	Price Each					
Mfr.	Mfr. Part No.									1	100	500	1000		
Surface Mount															
	782—TOIM4232	H	Serial	2.7 to 3.6	1.7/1.1	2.0/0.4	2.4/115.2	1.0	2.0	5.74	4.59	3.79	3.33		

IrDA TRANSCEIVER EVALUATION BOARD

The IrDA Transceiver Evaluation Board will allow engineers to easily prove a concept and aid in product development. The Evaluation Board includes the TFDU4100 Transceiver and TOIM4232 Encoder/Decoder along with all supporting components.

The IRA41004232-KIT is a prepackaged kit which is made up of two IRA41004232 boards and a CD that contains a Self-Test program, Application Notes, data sheets and instructions.



MOUSER STOCK NO.	Vishay Part No.	Description	Price Each
782-IRA41004232	IRA41004232	IrDA Evaluation Board	255.00
782-IRA41004232-KIT	IRA41004232-KIT	IrDA Evaluation Kit	285.00