

VISHAY Opto Components

RoHS Compliant This product is RoHS compliant.

IR RECEIVERS FOR 3D TV

Vishay Intertechnology has developed two infrared receivers specifically for the LCD shutter glasses used with 3D-ready TV sets. These receivers are designed to be assembled into active 3D glasses, where they received infrared signals from the TV set and ensure the glasses' LCD shutters open and close in proper synchronization to create the 3D effect.

- Features:**
- Eliminates possible interference from TV and set-top box remote control signals
 - Eliminates interference with remote control emitters and receivers
 - Enables more streamlined designs for 3D glasses



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr.	Mfr. Part No.	Fig.	Supply Voltage (V)	Supply Current (Typ.)(mA)	Carrier Freq. (kHz)	Trans. Dist. (m)	Irradiance (Typ.) (mW/sqm)	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each			
												1	100	500	1000
78-TSMP77000TT	A			2.5 to 5.5	0.9	20-60	5	0.15	-	±50	-	7.21	6.03	4.93	6.03
78-TSMP6000TT	B			2.5 to 5.5	0.9	20-60	5	0.15	-	±50	-	7.21	6.03	4.93	6.03
782-TSOP35D25TT	A			2.5 to 5.5	0.35	25	26	0.15	10	±50	⇒6	.92	.77	.63	.56
782-TSOP75D25TT	A			2.5 to 5.5	0.35	25	26	0.15	10	±50	⇒6	.92	.77	.63	.56
78-TSOP75D26TT	A			2.5 to 5.5	3	26.2	45	0.15	10	50	⇒6	6.84	5.72	4.68	4.16
78-TSOP35D26TT	B			2.5 to 5.5	3	26.2	45	0.15	10	50	⇒6	6.84	5.72	4.68	4.16



RECEIVERS

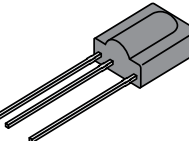
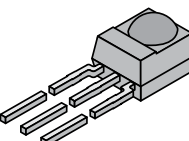
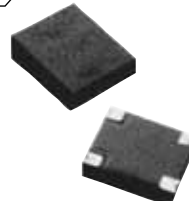
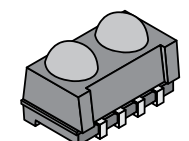
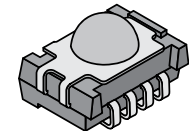
- Features:**
- High sensitivity for a large transmission range (35m/120ft)
 - Available for carrier frequencies from 30kHz up to 56kHz
 - No external components necessary

- Applications:**
- TV sets
 - Video recorders
 - Satellite receivers
 - DVD players
 - Slide projectors
 - Air-conditioners
 - Sensors and Light barrier systems for long distances



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr.	Mfr. Part No.	Fig.	Supply Voltage (V)	Supply Current (Typ.)(mA)	Carrier Frequency (kHz)	Trans. Dist. (m)	Irradiance (Max.) mW/m ²	Irradiance (Min.) W/m ²	Power Consumption (mW)	Directivity (°)	Burst Length Cycles/Burst	Price Each			
													1	100	500	1000
Surface Mount																
782-TSOP5038	B			2.7 to 5.5	5	38	30	1	30	10	±50	-----	.90	.72	.59	.53
782-TSOP6136	B			4.5 to 5.5	1.2	36	35	0.45	30	10	±50	⇒6	1.13	.98	.94	.92
782-TSOP6138	B			4.5 to 5.5	1.2	38	35	0.45	30	10	±50	⇒6	1.34	1.13	.92	.817
782-TSOP6156	B			4.5 to 5.5	1.2	56	35	0.45	30	10	±50	⇒6	1.41	1.13	.93	.91
782-TSOP6236	B			4.5 to 5.5	1.2	36	35	0.45	30	10	±50	⇒10	1.35	1.08	.89	.87
782-TSOP6238	B			4.5 to 5.5	1.2	38	35	0.45	30	10	±50	⇒10	1.29	1.08	.889	.87
782-TSOP6256	B			4.5 to 5.5	1.2	56	35	0.45	30	10	±50	⇒10	1.35	1.08	.89	.87
782-TSOP75238	C			2.5 to 5.5	3	38	45	0.35	30	10	±50	⇒10	3.57	2.11	1.72	1.43
782-TSOP85336AP5TT	D			2.5-5.5	-	36	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85338AP5TT	D			2.5-5.5	-	38	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85340AP5TT	D			2.5-5.5	-	40	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85356AP5TT	D			2.5-5.5	-	56	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85536AP5TT	D			2.5-5.5	-	36	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85538AP5TT	D			2.5-5.5	-	38	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85540AP5TT	D			2.5-5.5	-	40	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85556AP5TT	D			2.5-5.5	-	56	35	30	0.35	10	75	6	2.37	1.61	1.35	1.28
782-TSOP85236AP5TT	D			2.5-5.5	-	36	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85238AP5TT	D			2.5-5.5	-	38	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85240AP5TT	D			2.5-5.5	-	40	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85256AP5TT	D			2.5-5.5	-	56	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85436AP5TT	D			2.5-5.6	-	36	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85438AP5TT	D			2.5-5.7	-	38	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85440AP5TT	D			2.5-5.8	-	40	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
782-TSOP85456AP5TT	D			2.5-5.9	-	56	35	30	0.35	10	75	10	2.37	1.61	1.35	1.28
Thru-Hole																
782-TSOP32338SS1V	E			2.5 to 5.5	0.35	38	45	0.1	30	10	±45	⇒6	.70	.56	.47	.45
782-TSOP32438SS1V	E			2.5 to 5.5	0.35	38	45	0.1	30	10	±45	⇒6	.70	.56	.47	.45
782-TSOP38238SS1V	F			2.5 to 5.5	0.35	38	45	0.15	30	10	±45	⇒6	.63	.50	.42	.40
782-TSOP38338SS1V	F			2.5 to 5.5	0.35	38	45	0.15	30	10	±45	⇒6	.63	.50	.42	.40
782-TSOP2436	E			2.5 to 5.5	3	36	45	0.25	30	10	±45	⇒10	1.10	.88	.73	.66
782-TSOP2438	E			2.5 to 5.5	3	38	45	0.25	30	10	±45	⇒10	1.10	.88	.73	.66
782-TSOP31236	F			2.5 to 5.5	0.35	36	45	0.35	30	10	±45	⇒10	1.14	.77	.695	.666
782-TSOP31238	F			2.5 to 5.5	0.35	38	45	0.35	30	10	±45	⇒10	1.12	.94	.77	.635
782-TSOP38238	F			2.5 to 5.5	3	38	45	0.35	30	10	±45	⇒10	.89	.61	.45	.38
782-TSOP32156	E			2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒6	1.03	.998	.82	.719
782-TSOP34136	E			2.7 to 5.5	1.2	36	35	0.25	30	10	±45	⇒6	1.19	1.00	.82	.72
782-TSOP32238	E			2.7 to 5.5	1.2	38	35	0.25	30	10	±45	⇒10	1.68	1.17	.91	.719
782-TSOP34836	E			2.7 to 5.5	1.2	36	35	0.25	30	10	±45	⇒10	1.14	.96	.79	.70
782-TSOP34838	E			2.7 to 5.5	1.2	38	35	0.25	30	10	±45	⇒10	1.68	1.17	.91	.719
782-TSOP34856	E			2.7 to 5.5	1.2	56	35	0.25	30	10	±45	⇒10	1.19	.96	.79	.72
782-TSOP1136	F			4.5 to 5.5	1.2	36	35	0.35	30	10	±45	⇒6	1.15	.80	.67	.64
782-TSOP1138	F			4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒6	1.11	.93	.77	.67
782-TSOP1156	F			4.5 to 5.5	1.2	56	35	0.35	30	10	±45	⇒6	1.16	1.05	.84	.74
782-TSOP2138	E			4.5 to 5.5	1.2	38	35	0.4	30	50	±45	⇒6	1.12	.89	.76	.70
782-TSOP4138	E			4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒6	1.00	.85	.75	.70
782-TSOP1236	F			4.5 to 5.5	0.6	36	35	0.35	30	10	±45	⇒10	1.10	.88	.73	.64
782-TSOP2236	E			4.5 to 5.5	1.2	36	35	0.35	30	10	±45	⇒10	.95	.817	.709	.635
782-TSOP2238	E			4.5 to 5.5	1.2	38	35	0.35	30	10	±45	⇒10	.95	.817	.709	.635
782-TSOP4830	E			4.5 to 5.5	1.1	30	35	0.35	30	10	±45	⇒10	.91	.817	.709	.64
782-TSOP4836	E			4.5 to 5.5	1.1	36	35	0.35	30	10	±45	⇒10	.95	.817	.709	.64
782-TSOP4838	E			4.5 to 5.5	1.1	38	35	0.35	30	10	±45	⇒10	.86	.705	.612	.55
782-TSOP4840	E			4.5 to 5.5	1.1	40	35	0.35	30	10	±45	⇒10	.95	.817	.709	.595
782-TSOP4856	E			4.5 to 5.5	1.1	56	35	0.35	30	10	±45	⇒10	.95	.817	.709	.64



PREAMPLIFIER CIRCUIT FOR IR REMOTE CONTROL



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Supply Voltage (V)	Supply Current (Typ.)(mA)	Carrier Freq. (kHz)	Output Current (mA)	Power Consumption (mW)	High Level Pulse Width (μs)	Low Level Pulse Width (μs)	Price Each			
									1	100	500	1000
782-VSOP38338	VSOP38338	2.5 - 5.5	0.45	38	5	10	6	6	.52	.36	.28	.24
782-VSOP58438	VSOP58438	2.5 - 5.5	0.85	38	5	10	6	6	.52	.36	.28	.24

AMBIENT LIGHT SENSOR

- Features:**
- Adapted to human eye responsivity
 - High photo sensitivity
 - Suppression filter for near infrared radiation
 - Floor life: 168 h, MSL 3, acc. J-ST-020
 - AEC-Q101 qualified

- Applications:**
- Automotive sensors
 - Notebooks
 - Ambient light sensors
 - Mobile phones
 - Computers
 - PDA's
 - Cameras

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr.	Mfr. Part No.	Fig.	V _{RR}		Angle of Half Intensity (°)	Reverse Dark Current (max.)(nA)	Reverse Light Current (typ.)(μA)	Peak Emission Wavelength (nm)	Diode Capacitance (V _R =0)(pF)	Rise/Fall Times (typ.)(ns)	Price Each			
				(V) (min)	@ IR (μA)							1	100	500	1000
78-TEMT6000	G			-----	-----	±60	0.05	10	570	-----	-----	1.13	.87	.61	.552
782-TEMT6200F	G			-----	-----	±60	0.03	4.6	550	-----	-----	1.12			