

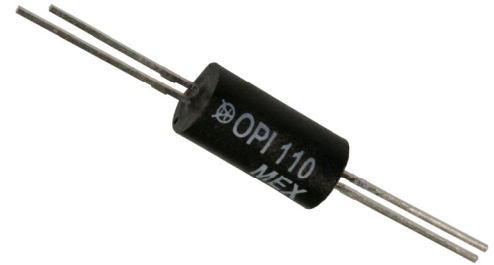


**THE DATASHEET OF
OPI1264**



Optically Coupled Isolator

OPI110, OPI1264 Series



Features:

- 15 kV electrical isolation
- Choice of phototransistor
- Low-cost plastic housing
- UL recognized File No. E58730

Description:

Each Optoisolator in this data sheet contains an infrared Light Emitting Diode (LED) and a NPN silicon Photosensor. The **OPI110** and **OPI1264** devices have 890 nm Light Emitting Diode (LED) and NPN phototransistor sensor. The devices are sealed in a precast opaque housing with an optically transmissive path between the LED and the photosensor.

The Optoisolators in this data sheet are UL recognised under E58730.

This series is designed for transmission of information between one power supply voltage and another where the potentials during surge conditions are not greater than the guaranteed isolation voltage.

Custom electrical, wire and cabling and connectors are available. Contact your local representative or OPTEK for more information.

Applications:

- High voltage isolation between input and output
- Electrical isolation in dirty environments
- Industrial equipment
- Medical equipment
- Office equipment

Ordering Information							
Part Number	LED Peak Wavelength	Sensor	Isolation Voltage (,000)	CTR Min / Max	I _F (mA) Typ / Max	V _{CE} (Volts) Max	Lead Length / Spacing
OPI110	890 nm	Transistor	15	12.5 / NA	10 / 40	30	0.50" / 0.55"
OPI110A				25 / NA			
OPI110B				50 / 125			
OPI110C				100 / NA			
OPI1264		Transistor		12.5 / NA	10 / 40		
OPI1264A				25 / NA			
OPI1264B				50 / 125			
OPI1264C				100 / NA			

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | OPTEK Technology
2900 E. Plano Pkwy, Plano, TX 75074 | Ph: +1 972 323 2200
www.ttelectronics.com | sensors@ttelectronics.com

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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Input Diode (See OP265 for additional information - for reference only)						
V_F	Forward Voltage	-	-	1.6	V	$I_F = 20\text{ mA}$
I_R	Reverse Current	-	-	100	μA	$V_R = 2\text{ V}$
Output Photosensor (See OP505 for additional information - for reference only)						
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage OPI110, OPI1264	30	-	-	V	$I_C = 100\ \mu\text{A}$
$V_{(BR)ECO}$	Emitter-Collector Breakdown Voltage OPI110 OPI1264	5 -	- -	- -	V	$I_E = 100\ \mu\text{A}, I_F = 0$ $I_E = 100\ \mu\text{A}$
I_{CEO}	Collector-Emitter Dark Current OPI110, OPI1264	-	-	100	nA	$V_{CE} = 15\text{ V}, E_E = 0$
Coupled						
$I_{C(ON)}$	Coupled "ON" Current OPI110, OPI1264	1.25	-	44	mA	$I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$
I_C/I_F	DC Current Transfer Ratio OPI110, OPI1264 OPI110A, OPI1264A OPI110B, OPI1264B OPI110C, OPI1264C	12.5 25.0 50.0 100.0	- - - -	- - 125 -	%	$I_F = 10\text{ mA}, V_{CE} = 5\text{ V}$ $I_F = 10\text{ mA}, V_{CE} = 5\text{ V}$ $I_F = 10\text{ mA}, V_{CE} = 5\text{ V}$ $I_F = 10\text{ mA}, V_{CE} = 5\text{ V}$
$V_{CE(SAT)}$	Collector Saturation Voltage OPI110, OPI1264	-	-	0.4	V	$I_F = 10\text{ mA}, I_C = 1.6\text{ mA}$
I_{CEO}	Collector-Emitter Dark Current OPI110, OPI1264	-	-	200	nA	$V_{CE} = 20\text{ V}, I_F = 0$
V_{ISO}	Isolation Voltage	15	-	-	kVDC	See Note 1.

Notes:

(1) Measured with input and output leads shorted. Typical input/output capacitance is 0.06 pF.

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