





# **NSL-5510**

#### Light Dependent Resistor (LDR) CdS Photocell

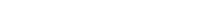
The NSL-5510 is a light dependent resistor with sensitivity in the visible light region. The CdS photocell is contained in a TO-5 hermetically sealed package.

Advanced Photonix's CdS Photocells are photoresistor cells for visible light measurement designed to sense light from 400 to 700 nm. Their resistance decreases as the light level increases with efficiency characteristics similar to the human eye. These Light Dependent Resistors (LDR) are available in a wide range of resistance values. They are available in a two leaded plastic-coated ceramic header or hermetically sealed TO metal cans.

## **Applications**

Industrial
Audio Compressors
Night Lights
Photography Light Meters
Solar Street Lights
Flame Detection

Passive Resistance output
Hermetically Sealed
Passive Resistance output
Hermetically Sealed
Available in a two-leaded ceramic package
Available in a wide range of resistance values







### **Absolute Maximum Ratings**

Parameter	Symbol	Min	Max	Unit				
Voltage	V <sub>R</sub>	-	120	V				
Power Dissipation*	-	-	200	mW				
Operating Temperature	T <sub>op</sub>	-40	+75	°C				
Storage Temperature	T <sub>stg</sub>	-55	+75	°C				
Package	TO-5							

\*Derate linearly to zero at 75°C

## Typical Electro-Optical Specifications at $T_A = 23 \text{ °C}$

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Light Resistance	2ftc., 2854 °K	RL	2.2	3.3	4.4	ΚΩ
Dark Resistance	5 sec after removal of test light	R <sub>D</sub>	0.22	-	-	MΩ
Spectral Peak	-	$\lambda_{p}$	-	550	-	nm

<sup>1</sup>Cells light adapted at 30 to 50 ftc for 16 hrs minimum prior to electrical tests.

#### **Mechanical Specifications**

#### Units are in inches [mm]

