





NSL-6112

Light Dependent Resistor CdS Photocell

The NSL-6112 is a light dependent resistor with sensitivity in the visible light region. The CdS photoconductive cell is on a TO-18 ceramic and the photocell surface is plastic encapsulated for moisture resistance.

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

Flame Detection

Industrial Audio Compressors Night Lights Photography Light Meters Solar Street Lights

Features

Passive Resistance output
Visible Light Response
Sintered Construction
Two-leaded ceramic package
Available in a Hermetically sealed package
Available in a wide range of resistance values





Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit				
Voltage	V _R	-	100	V				
Power Dissipation	-	-	50	mW				
Operating Temperature	T _{OP}	-40	+75	°C				
Storage Temperature	T _{STG}	-55 +75		°C				
Package	2-pin Ceramic							

Typical Electro-Optical Specifications at T_A=23 °C

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Light Resistance	2ftc., 2854 °K¹	$R_{\scriptscriptstyle L}$	-	2.0	-	ΚΩ
	100 ftc.,2854 °K¹	$R_{\scriptscriptstyle L}$	-	170	-	Ω
Dark Resistance	5 sec after removal of test light	$R_{_{D}}$	1.3	-	-	ΜΩ
Spectral Peak	-	λ_{P}	-	690	-	nm

¹Cells light adapted at 30 to 50 ftc for 16 hours prior to electrical tests.

Mechanical Specifications

Units are in inches [mm]

