



**DESCRIPTION**

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

**RELIABILITY**

This Luna high-reliability device is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test. Contact Luna for recommendations on specific test conditions and procedures.

**FEATURES**

- Passive resistance output
- Ceramic package

**APPLICATIONS**

- Industrial Switching
- Medical
- Military

**ABSOLUTE MAXIMUM RATINGS**

SYMBOL	MIN	MAX	UNITS		
Voltage (peak AC or DC)	-	-	100	V	$T_a = 23^{\circ}\text{C}$ UNLESS OTHERWISE NOTED
Power Dissipation @ 25°C <sup>1</sup>	-	-	50	mW	-
Operating Temperature	-60	to	+75	°C	-
Storage Temperature	-60	-	+75	°C	-
Soldering Temperature <sup>2</sup>	-	-	+260	°C	-

**NOTE:**  
 1. Derate lineary to 0 at 75°C  
 2. >0.05" from base for <10 sec  
 3. Cells light adapted at 30 to 50 ftc. for 16hrs. minumim prior to electrical tests.

**OPTO-ELECTRICAL PARAMETERS**

T<sub>a</sub> = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Resistance	2 ftc., 2854°K <sup>3</sup>	-	2.0	-	KΩ
Light Resistance	100 ftc., 2854°K <sup>3</sup>	-	170	-	Ω
Dark Resistance	5 sec. after removal of test light	1.3	-	-	MΩ
Spectral Peak	-	-	690	-	nm

**TYPICAL PERFORMANCE**

**RESISTIVITY vs. LIGHT INTENSITY @ 2854K**

