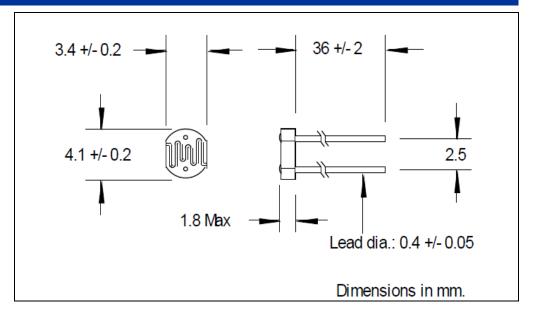


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DESCRIPTION

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°C UNLESS OTHERWISE NOTED
Power Dissipation @ 25°C ¹	-	-	50	mW	-
Operating Temperature	-60	to	+75	°C	-
Storage Temperature	-60	-	+75	°C	-
Soldering Temperature ²	-	-	+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.



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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Resistance	2 ftc., 2854°K ³	_	2.0	-	ΚΩ
Light Resistance	100 ftc., 2854°K ³	-	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

