

TO-18 PHOTOCONDUCTIVE CELLS

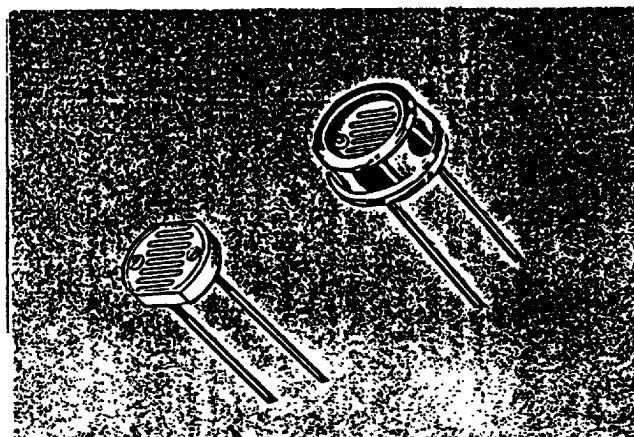
T-41-41

FEATURES

- Six Photoconductive Materials
- Power Dissipation @ 25°C
50 mW – Hermetically Sealed
50mW – Plastic Encapsulated
- Resistance Tolerance: $\pm 40\%$ @ 1 Ftc
 $\pm 33\text{--}1/3\%$ @ 2 Ftc
- Temperature Range:
–60°C to +75°C

GENERAL DESCRIPTION

The Silonex TO-18 series of photoconductive cells provide up to seven standard resistance ranges in CdS or CdSe materials. Two standard mechanical configurations are available; a hermetically sealed package, and a moisture resistant plastic encapsulated version.



HERMETIC PACKAGE

SILONEX PART NO	SENSITIVE MATERIAL	PEAK SPECTRAL RESPONSE (nm)	RESISTANCE @ 1 ftc (ohms)	RESISTANCE @ 2 ftc (ohms)	TYPICAL RESISTANCE @ 100 ftc (ohms)	MIN. DARK RESISTANCE 5 SEC. AFTER 2 ftc (ohms)	MAXIMUM VOLTAGE RATING (PEAK AC or DC)
NSL-3110 NSL-3120 NSL-3130	Type 3 CdSe	725		6K 66K 133K	450 4K 9K	40Meg 440Meg 880Meg	100V 100V 250V
NSL-4120 NSL-4130 NSL-4140 NSL-4150 NSL-4160 NSL-4170 NSL-4180	Type 4 CdS	515	75K 30K 14K 550K 260K 110K 50K		1.3K 500 250 9K 4K 1.7K 900	10Meg 2Meg 200K 100Meg 100Meg 50Meg 5Meg	80V 80V 80V 320V 320V 320V 160V
NSL-5110 NSL-5120 NSL-5130 NSL-5140 NSL-5150 NSL-5160 NSL-5170	Type 5 CdS	550		10K 20K 84K 165K 15K 100K 700K	700 1.5K 5K 10K 400 3K 20K	670K 1.3Meg 5.6Meg 11Meg 10Meg 67Meg 467Meg	100V 100V 100V 250V 60V 100V 100V
NSL-6110 NSL-6120 NSL-6130 NSL-6140	Type 6 CdSe	690		2K 4K 15K 30K	170 300 1K 2K	1.3Meg 2.6Meg 10Meg 20Meg	100V 100V 100V 250V
NSL-7110 NSL-7120 NSL-7130 NSL-7140 NSL-7150 NSL-7160	Type 7 CdS	615		6K 66K 132K 4.5K 24K 300K	350 4K 8K 250 1.0K 16K	1Meg 11Meg 22Meg 3Meg 16Meg 200Meg	100V 100V 250V 60V 100V 100V
NSL-9110 NSL-9120	Type 9 CdS	550		15K 100K	400 3K	10Meg 67Meg	60V 100V

Data Sheet 15015

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PLASTIC ENCAPSULATED

SILONEX PART NO	SENSITIVE MATERIAL	PEAK SPECTRAL RESPONSE (nm)	RESISTANCE @ 1 ftc (ohms)	RESISTANCE @ 2 ftc (ohms)	TYPICAL RESISTANCE @ 100 ftc (ohms)	MIN. DARK RESISTANCE 5 SEC. AFTER 2 ftc (ohms)	MAXIMUM VOLTAGE RATING (PEAK AC or DC)
NSL-4122 NSL-4132 NSL-4142 NSL-4152 NSL-4162 NSL-4172 NSL-4182	Type 4 CdS	515	75K 30K 14K 550K 260K 110K 50K		1.3K 500 250 9K 4K 1.7K 900	10Meg 2Meg 200K 100Meg 100Meg 50Meg 5Meg	80V 80V 80V 320V 320V 320V 160V
NSL-5112 NSL-5122 NSL-5152 NSL-5162	Type 5 CdS	550		10K 20K 15K 100K	700 1.5K 400 3K	670K 1.3Meg 10Meg 67Meg	100V 100V 70V 100V
NSL-6112	Type 6 CdSe	690		2K	170	1.3Meg	100V
NSL-7142 NSL-7152	Type 7 CdS	615		4.5K 24K	250 1.0K	3Meg 16Meg	70V 100V
NSL-9112 NSL-9122	Type 9 CdS	550		15K 100K	400 3K	10Meg 67Meg	70V 100V

MEASUREMENT DATA: Cells light adapted at 30-50 Ftc for 16 hours minimum prior to test. All measurements conducted at 25°C ambient, 2854°K.

Dark resistances measured 5 seconds after removal of room light (30-50 Ftc). Power derating. Linearly to 75°C

