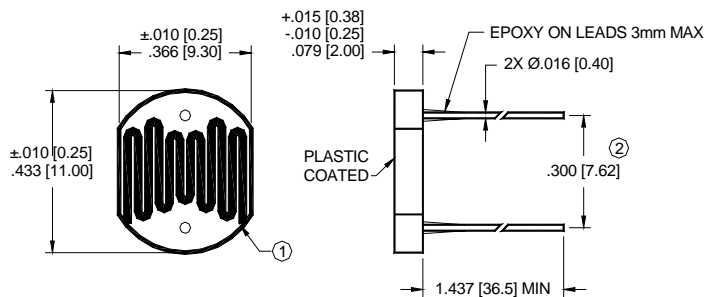


# PHOTONIC Cadmium Sulfoselenide (CdS) Photoconductive Photocells DETECTORS INC. Type PDV-P500X



## PACKAGE DIMENSIONS INCH [mm]



## PLASTIC COATED CERAMIC PACKAGE

1. PHOTOCELL "GRID" PATTERN CAN VARY, PDI RESERVES THE RIGHT TO CHANGE AND MIX GRID PATTERNS.
2. DIMENSION CONTROLLED AT BASE OF CERAMIC HEADER PACKAGE.

## FEATURES

- Visible light response
- Sintered construction
- Low cost
- High Reliability

## DESCRIPTION

**PDV-P500X** are (CdS) photoconductive photocells designed to sense light from 400 nm to 700 nm. As light dependent resistors, they are available in a wide range of resistance values. They are packaged in a two leaded plastic-coated ceramic header.

## APPLICATIONS

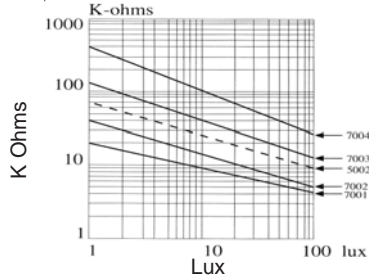
- Audio equipment
- Electronic Toys
- Modulation circuits
- Volume controls

## ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
$V_{PK}$	Applied Voltage		350	V dc
$P_d \Delta_{po}/\Delta t$	Continuous Power Dissipation		400	mW/°C
$T_{stg} \& T_o$	Operating Temperature Range & Storage	-30	+75	°C
$T_s$	Soldering Temperature*		+260	°C

\*.200 inch (5 mm) from bottom of header for 3 secs max with heat sink

## CELL RESISTANCE VS. ILLUMINANCE



## ELECTRO-OPTICAL CHARACTERISTICS TA=25°C (2 HOURS LIGHT ADAPT, MIN)\*\*\*

MODEL NO.	CELL RESISTANCE** (Ohms)				SENSITIVITY LOG(R100)-LOG(R10) LOG(E100)-LOG(E10) (I TYP)	SPECTRAL PEAK (nm) TYP	RESPONSE TIME @ 10 Lux	
	10 Lux @ 2856K		DARK				RISE TIME (ms) TYP	FALL TIME (ms) TYP
	MIN (KW)	MAX (KW)	MIN (MW)	SEC				
PDV-P5001	8	16	0.3	10	0.6	520	55	25
PDV-P5002	12	30	0.5	10	0.75	520	55	25
PDV-P5003	12	58	1	10	0.7	520	55	25

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. \*\* Photocells are light adapted at 100 to 500 Lux. \*\*\* Photocells are tested at 2856°K at a 10 Lux light level. Resistance values are for reference only.