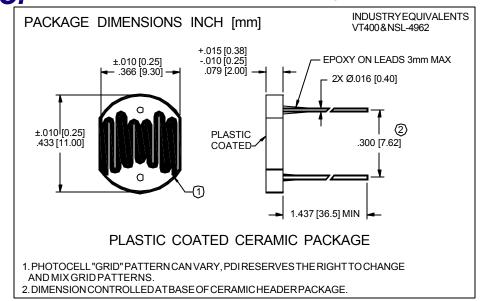
PHOTONIC Cadmium Sulfoselenide (CdS) Photoconductive Photocells DETECTORS INC.

Type PDV-P500X





< Ohms

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.

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

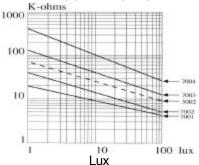
SYMBOL	PARAMETER	MIN	MAX	UNITS
VPK	Applied Voltage		350	V dc
P _{da polat}	Continuous Power Dissipation		400	mW/ºC
Tstg & To	OperatingTemperatureRange&Storage	-30	+75	∘C
Ts	Soldering Temperature*		+260	∘C

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

APPLICATIONS

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

CELL RESISTANCE VS. ILLUMINANCE



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

MODEL NO.	O.CELL RESISTANCE** (Ohms)				SENSITIVITY	SPECTRALPEAK	RESPONSETIME@10Lux	
	10 Lux @2856K DARK			LOG(R100)-LOG(R10) LOG (E100)-LOG(E10)	(nm)	RISE TIME (ms)	FALL TIME (ms)	
N	IN(KΩ) N	IAX (KΩ) I	MIN (M Ω)	SEC	` ' ' ' '	TYP	TYP	TYP
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