

Photoconductive Series

Typical Electro-Optical Specifications at T_A=23°C

Model Number	Active Area		Peak Responsivity Wavelength	Responsivity at λ _p		Capacitance (pF)		Dark Current (nA)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (ns)	Temp.* Range (°C)		Package Style ¶
	Area (mm ²)	Dimensions (mm)		λ _p (nm)	(A/W)		0 V	-10 V	-10 V				-10V 632nm 50 Ω	Operating	
			typ.		min.	typ.	typ.	typ.	typ.	max.	typ.	max.	typ.		
'D' Series, Metal Package															
PIN-020A	0.20	0.51 φ	970	0.60	0.65	4	1	0.01	0.15	2.8 e-15	30	6	-40 ~ +100	-55 ~ +125	1 / TO-18
PIN-040A	0.81	1.02 φ				8	2	0.05	0.50	6.2 e-15		8			
PIN-2DI ‡	1.1	0.81 x 1.37				25	5	0.10	1.0	8.7 e-15		10			4 / TO-18
PIN-3CDI	3.2	1.27 x 2.54				45	12	0.15	2	1.1 e-14		12			7 / TO-18
PIN-3CD						85	15	0.25	3	1.4 e-14					2 / TO-5
PIN-5DI	5.1	2.54 φ				225	40	0.35	6	1.6 e-14		14			2 / TO-5
PIN-5D															5 / TO-5
PIN-13DI	13	3.6 sq				330	60	0.5	10	1.9 e-14		17			2 / TO-5
PIN-13D															5 / TO-5
PIN-6DI	16.4	4.57 φ				700	130	1	15	2.8 e-14		24			3 / TO-8
PIN-6D															6 / TO-8
PIN-44DI	44	6.6 sq				1500	300	2	25	3.9 e-14		43			3 / TO-8
PIN-44D															6 / TO-8
PIN-10DI	100	11.28 φ				9500	1800	15	1000	1.1 e-13		250			10 / Lo-Prof
PIN-10D			11 / BNC												
PIN-25D	613	27.9 φ							12 / BNC						
'O' Series, Metal Package															
OSD1-0	1	1.0 sq	900	0.47	0.54	12	3	1	3	4.5 e-14	50	10	-25 ~ +75	-40 ~ +100	7 / TO-18
OSD5-0	5	2.5 φ				50	8	5	10	1.0 e-13		8			5 / TO-5
OSD15-0	15	3.8 sq				150	20	8	15	1.3 e-13		9			5 / TO-5
OSD35-0	35	5.9 sq				350	46	12	30	1.6 e-13		12			3 / TO-8
OSD60-0	58	7.6 sq				600	75	15	50	1.7 e-13		14			72 / TO-8
OSD100-0A	100	11.3 φ				1000	130	30	70	2.5 e-13		19			74 / Special
'D' Series, Plastic Package §															
FIL-5C	5.1	2.54 φ	970	0.60	0.65	85	15	0.25	3	1.4 e-14	30	12	-10 ~ +60	-20 ~ +70	14 / Plastic
FIL-20C	16.4	4.57 φ				330	60	0.5	10	1.9 e-14		17			
FIL-44C	44	6.6 sq				700	130	1	15	2.8 e-14		24			15 / Plastic
FIL-100C	100	11.28 φ				1500	300	2	25	3.9 e-14		43			
PIN-220D	200	10 x 20				3200	600	5	100	6.2 e-14		75			27 / Plastic

‡ The 'I' suffix on the model number is indicative of the photodiode chip being isolated from the package by an additional pin connected to the case.

§ The photodiode chips in "FIL" series are isolated in a low profile plastic package. They have a large field of view as well as "in line" pins.

¶ For mechanical drawings please refer to pages 58 thru 69.

* Non-condensing temperature and storage range, Non-condensing environment.

Mechanical Specifications

All units in inches. Pinouts are bottom view.

1 TO-18	2 TO-5	3 TO-8																																		
<p>Products:</p> <p>PIN-020A PIN-040A PIN-040-DP/SB</p> <p>Pin Circle Dia.=0.100</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>PIN-020A</td> <td>0.075</td> <td>0.200</td> <td>0.155</td> </tr> <tr> <td>PIN-040A</td> <td>0.075</td> <td>0.200</td> <td>0.155</td> </tr> </tbody> </table>	P/N	A	B	W	PIN-020A	0.075	0.200	0.155	PIN-040A	0.075	0.200	0.155	<p>Products:</p> <p>PIN-5DI PIN-5DPI PIN-13DI PIN-13DPI PIN-5-YAG CD-25T</p> <p>Pin Circle Dia.=0.200</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>All Others</td> <td>0.094</td> <td>0.180</td> <td>0.240</td> </tr> <tr> <td>CD-25T</td> <td>0.050</td> <td>0.130</td> <td>0.23</td> </tr> </tbody> </table>	P/N	A	B	W	All Others	0.094	0.180	0.240	CD-25T	0.050	0.130	0.23	<p>Products:</p> <p>PIN-6DI PIN-6DPI PIN-44DI PIN-44DPI OSD35-0 OSD35-7Q</p> <p>Pin Circle Dia.=0.295</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PIN-6DI/6DPI</td> <td>0.115</td> </tr> <tr> <td>PIN-44DI/44DPI</td> <td>0.125</td> </tr> <tr> <td>OSD35-0</td> <td>0.130</td> </tr> <tr> <td>OSD35-7Q</td> <td>0.130 Quartz Window</td> </tr> </tbody> </table>	P/N	A	PIN-6DI/6DPI	0.115	PIN-44DI/44DPI	0.125	OSD35-0	0.130	OSD35-7Q	0.130 Quartz Window
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<p>Products:</p> <p>PIN-2DI PIN-2DPI PIN-3CDP PIN-3CDPI BPX-65R</p> <p>Pin Circle Dia.=0.100</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>BPX-65R</td> <td>0.070</td> <td>0.200</td> </tr> <tr> <td>All Others</td> <td>0.090</td> <td>0.150</td> </tr> </tbody> </table>	P/N	A	B	BPX-65R	0.070	0.200	All Others	0.090	0.150	<p>Products:</p> <p>PIN-5D PIN-5DP PIN-5DP/SB PIN-13D PIN-13DP PIN-005E-550F UV-001 UV-005 UV-005D UV-005E UV-013D UV-013E UV-015 OSD-5-0 OSD15-0 OSD5-5T OSD15-5T OSD5.8-7Q OSD5.8-7U</p> <p>Pin Circle Dia.=0.200</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>OSD-Prefix Devices</td> <td>0.050</td> <td>0.130</td> </tr> <tr> <td>All Others</td> <td>0.102</td> <td>0.180</td> </tr> </tbody> </table> <p>Quartz Window: OSD5.8-7Q UV Transmissive Window: OSD5.8-7U</p>	P/N	A	B	OSD-Prefix Devices	0.050	0.130	All Others	0.102	0.180	<p>Products:</p> <p>PIN-6D PIN-6DP PIN-44D PIN-44DP UV-020 UV-035D UV-035E UV-035</p> <p>Pin Circle Dia.=0.295</p>																
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<p>Products:</p> <p>PIN-3CD PIN-3CDP BPX-65 OSD1-0 OSD1-5T OSD3-5T OSD1.2-7Q OSD1.2-7U</p> <p>Pin Circle Dia.=0.100</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PIN-3CD / 3CDP</td> <td>0.087</td> <td>0.146</td> </tr> <tr> <td>BPX-65</td> <td>0.075</td> <td>0.200</td> </tr> <tr> <td>OSD-Prefix Devices</td> <td>0.080</td> <td>0.200</td> </tr> </tbody> </table> <p>Quartz Window: OSD1.2-7Q UV Transmissive Window: OSD1.2-7U</p>	P/N	A	B	PIN-3CD / 3CDP	0.087	0.146	BPX-65	0.075	0.200	OSD-Prefix Devices	0.080	0.200	<p>Products:</p> <p>PIN-125DPL</p> <p>Pin Circle Dia.=0.100</p>	<p>Products:</p> <p>PIN-HR005 PIN-HR008 PIN-HR020 PIN-HR026 PIN-HR040</p> <p>Pin Circle Dia.=0.100</p>																						
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All units in inches. Pinouts are bottom view.

Low Profile

Products:
 PIN-10DI
 PIN-10DPI
 PIN-10DPI/SB
 UV-50L
 UV-100L

Pin Circle Dia.=0.73

BNC

Products:
 PIN-10D
 PIN-10DP
 PIN-10DP/SB
 UV-50
 UV-100

Outer Contact — Anode	PIN-10D, PIN-10DP, PIN-10DP/SB
Outer Contact — Cathode	UV-50, UV-100

BNC

Products:
 PIN-25D
 PIN-25DP

Outer Contact — Anode

Special BNC

Products:
 PIN-10AP
 PIN-10DF

P/N	A	B	C
PIN-10DF	0.217	0.330	1.020
PIN-10AP	0.386	0.550	1.415

Special Plastic

Products:
 FIL-5C
 FIL-20C
 FIL-UV20
 FIL-C4DG

P/N	A	B
FIL-5C FIL-20C	0.060	0.130
FIL-UV005 FIL-UV20 FIL-C4DG	0.087	0.152

P/N	1	2	3	4	5	6
FIL-5C FIL-20C FIL-UV005	a	-	c	a	-	c
FIL-UV20	c	-	a	c	-	a
FIL-C4DG	c	a	c	c	a	c

Special Plastic

Products:
 FIL-44C
 FIL-100C
 FIL-UV50
 FIL-UV100
 FIL-C10DG

P/N	A	B
FIL-44C FIL-100C	0.052	0.130
FIL-UV50 FIL-UV100 FIL-C10DG	0.090	0.155

P/N	1	2	3	4	5	6	7	8
FIL-44C FIL-100C	a	-	-	c	a	-	-	c
FIL-UV50 FIL-UV100	c	-	-	a	c	-	-	a
FIL-C10DG	c	a	a	c	c	a	a	c

All units in inches. Pinouts are bottom view.

22 TO-5

Products:
XUV-005

Pin Circle Dia.=0.200

23 TO-8

Products:
**XUV-020
XUV-035**

Pin Circle Dia.=0.295

24 TO-8

Products:
PIN-DSIn-TEC

Pinout	
1	TEC (-)
2	Thermistor
3	Thermistor
4	TEC (+)
5	Bottom InGaAs, Cathode
6	Bottom InGaAs, Anode
7	Top Silicon, Anode
8	Top Silicon, Cathode

25 Special Ceramic / Plastic

Products:
**RD-100
RD-100A
UV-35P
UV-005EC
UV-035EC
UV-100EC
UV-005DC
UV-035DC
UV-100DC
XUV-50C
XUV-100C
OSD35-7CO
OSD35-LR-A
OSD35-LR-D**

P/N	Dimensions			
	A	B	C	D
UV-005EC	0.400	0.350	0.030	0.280
UV-035EC	0.400	0.350	0.030	0.290
UV-100EC	0.650	0.590	0.048	0.500
UV-005DC	0.400	0.350	0.030	0.280
UV-035DC	0.400	0.350	0.030	0.290
UV-100DC	0.650	0.590	0.053	0.500
XUV-50C	0.650	0.590	0.027	0.490
XUV-100C	0.650	0.590	0.027	0.490
RD-100	0.650	0.590	0.027	0.490
RD-100A	0.650	0.590	0.027	0.490
UV-35P	0.390	0.345	0.050	0.275
OSD35-7CO	0.390	0.350	---	0.290
OSD35-LR-A	0.390	0.350	---	0.290
OSD35-LR-D	0.390	0.350	---	0.290

Note: OSD35-prefix packages come with 0.31" (min.) leads

26 TO-8

Products:
**PIN-RD07
PIN-RD15**

Pin Circle Dia.=0.295

27 Special Plastic

Products:
**PIN-220D
PIN-220DP
PIN-220DP/SB**

Pin Diameter=0.040

28 BNC

Products:
XUV-100

BNC Connector
Outer Contact = Cathode

Mechanical Specifications

All units in inches. Pinouts are bottom view.

68 TO-18	69 TO-18	70 TO-5
<p>Products: APD-300 APD-500</p> <p>Pin Circle Dia.=0.100</p>	<p>Products: APD-300L APD-500L</p> <p>Pin Circle Dia.=0.100</p>	<p>Products: APD-900 APD-1500 APD-3000</p> <p>Pin Circle Dia.=0.200</p>
71 Plastic	72 TO-8	73 TO-8
<p>Products: CD-1705</p> <p>ANODE CATHODE</p>	<p>Products: OSD-60-0</p> <p>CATHODE & CASE ANODE</p>	<p>Products: QD50-0</p> <p>CATHODE & CASE Q4 Q3 Q2 Q1 QUADRANT ANODE 1</p>
74 Special	75 TO-5	76 Plastic Molded
<p>Products: OSD100-0A OSD100-5TA</p> <p>RED DOT INDICATES CATHODE LEAD</p>	<p>Products: DLS-2S</p> <p>Pin Circle Dia.= 0.200 Bottom View</p>	<p>Products: OS-P200</p> <p>OPTICAL C</p>