

DESCRIPTION

The PPDD series module incorporates a highly responsive photodiode sensitive to the communications wavelength range between 1100 nm and 1650 nm. This photodiode is hermetically packaged in an industry standard coaxial package with a single mode fiber pigtail. This module is especially suited as a low cost detector for channel monitoring, as well as low bandwidth applications.

FEATURES

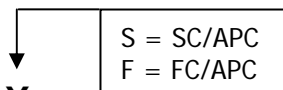
- High sensitivity photodiode
- Bandwidth to 600 MHz
- Wide operating temperature range
- RoHS compliant



APPLICATIONS

- Low speed digital
- WDM channel monitoring

MODEL NUMBERS: PPDD-X



MAXIMUM RATINGS

PARAMETER	Symbol	LIMIT
Storage Temperature	T_{ST}	-40 to +85°C
Input Power Saturation	P_{IN}	10 mW
Reverse Voltage	V_R	35 V
Forward Current	I_F	10 mA

ELECTRO-OPTICAL CHARACTERISTICS

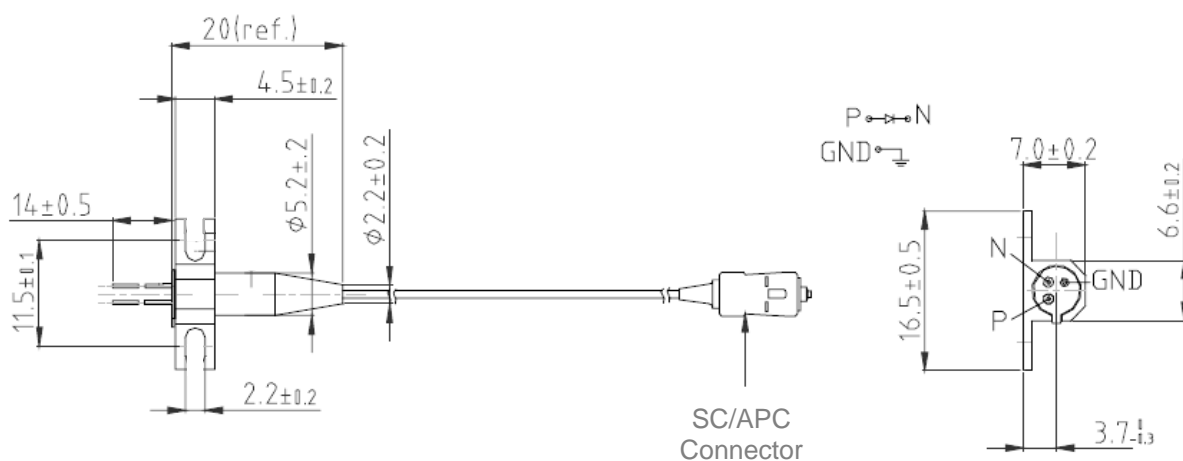
(T=25 °C unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYPICAL	MAX	UNIT
Operating Temperature	T _{OP}	-40		+85	°C
Optical Wavelength Range		1100	--	1650	nm
Responsivity	R	--	0.85 @ 1310 nm 0.90 @ 1550 nm	--	A/W
Bandwidth	BW	--	-	0.6	GHz
RF Flatness	FR	-0.5	--	0.5	dB
Dark Current	I _D	--	--	1	nA
Capacitance	C	--	--	0.8	pF

MECHANICAL SPECIFICATIONS

with Optional Mounting Bracket

(mm unless otherwise noticed, orientation of leads in bracket arbitrary)



- SMF-28 optical fiber, flame retardant Hytrel coating, 0.9 mm diameter, 1 m length
- Custom lengths and mounting brackets available upon request