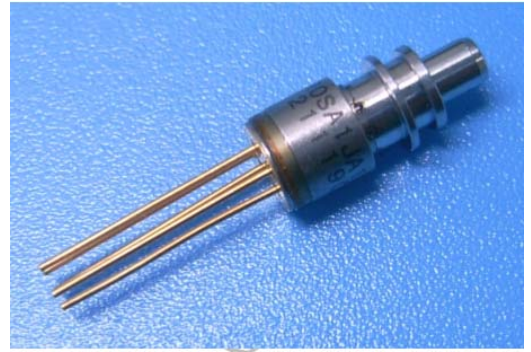


LC 10G PT ROSA with Receptacle Modules

HELC-ROSA2B912503

Features:

- ◆ Differential Output
- ◆ Coaxial Package
- ◆ Single Power Supply Voltage +3.3V
- ◆ Laser Welding, High reliability and Long Operation life
- ◆ Wavelength from 1260nm to 1620nm
- ◆ Data Rate Up to 10G
- ◆ Low Noise
- ◆ RoHS Compliant Products Available



Applications:

- ◆ 10G SONET/SDH System
- ◆ 10G Fiber Channel System

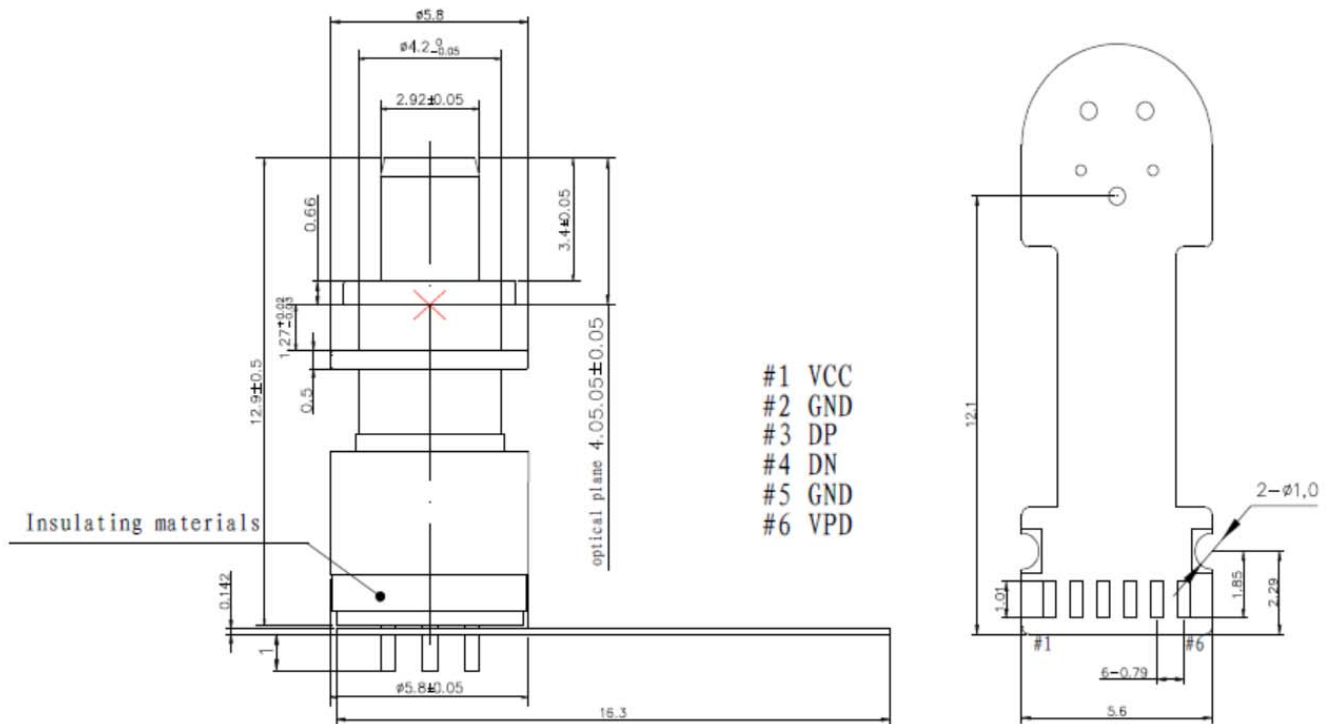
Absolute Maximum Ratings:

Parameter	Min.	Typ.	Max.	Unit
Storage Temperature	-40	25	85	°C
Operating Temperature	0	25	85	°C
TIA Supply Voltage	2.97	3.3	3.63	V
Soldering Temperature / Time	--	--	260/10	°C/S

Electrical and Optical Characteristics:

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Wavelength	λ	1260	--	1620	nm	
Supply Current	I _{cc}	--	--	62	mA	No Loads
Small-Signal Bandwidth	BW	7.5	--	--	MHz	
Low-Frequency Cut off	LF	--	--	70	kHz	
Optical Return Loss	ORL	--	--	-27	dB	CW
Sensitivity		-	-15	-14	dBm	$\lambda=1310$ nm, @10G,PRBS2 ³¹ -1, BER=1E-11
Rise /Fall Time	Tr/Tf	--	--	50	ps	20~80%
Saturation Power	Psat	0	--	--	dBm	

Package Dimension:



Precaution:

- (1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

Notice:

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