

155M PIN-TIA Receiver with LC Receptacle

Modules

OSML- ROSAX313XX

Features:

- High sensitivity
- Differential ended output
- ◆ Single +3V、+5V、+3.3/+5V operation
- Trans-impedance amplifier with AGC
- RoHS Compliant products available

Applications:

- 100/155M application
- SDH/SONET application

General:

OSML-ROSA2X313XX Series is a 4 pin or 5 pin PIN-TIA with Receptacle operating on 155M. It provides high sensitivity with AGC, 100ohm differential outputs PIN-TIA provides a monitor pin. A split sleeve for the optical connector is jointed with φ 2.5mm ferrule.

Ordering Information: (Standard version *Note1)

Part No.	Insulation	Voltage (V)	Pin Type	Ferrule sets of type
OSML-ROSA3130B	NO	3.3	А	Ceramic sleeve
OSML -ROSAJ3130	YES	3.3	А	No ceramic sleeve
OSML -ROSA313D	NO	3.3	D	No ceramic sleeve
OSML -ROSAJ313DB	YES	3.3	D	Ceramic sleeve

*Note1: For more ordering information, please refer the nomenclature and contact OSM sales.





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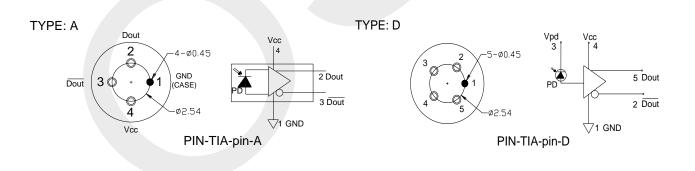
Absolute Maximum Ratings:

Parameter	Min.	Тур.	Max.	Unit
Storage Temperature	-40	25	85	°C
Operating Temperature	-40	25	85	°C
TIA Supply Voltage	3.1	3.3	5	V
Operation Relative Humidity	-		85	%
Soldering Temperature / Time	-		260/10	°C/S

Electrical and Optical Characteristics:

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Operating Wavelength	λ	1270		1620	nm	
Supply Current	lcc		30	40	mA	No Loads
Saturation Power	Psat	-3	0	-	dBm	@ 1310nm
Small-Signal Bandwidth	BW	110	140		MHz	
Low-Frequency Cut off	LF			5	kHz	
Sensitivity			-37	-35	dBm	1300nm,155M, BER=10 ⁻¹⁰ @ PRBS= 2 ²³ -1
Single Ended Output Impedance	R		50		Ω	
Rise /Fall Time	Т			4.5	ns	10~90%

Pin Assignment: *Note2

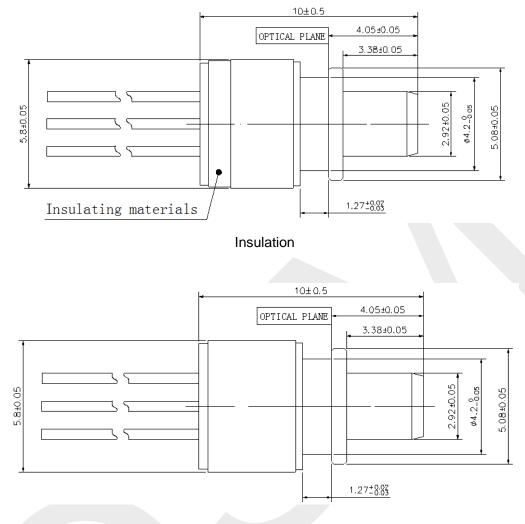


Note2: Other Pin type can be customized.



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Package Dimension: *Note3



Not insulated

*Note3: Insulation is the TO-CAN and the metal pipe insulation.

Nomenclature:

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A B C D E F

Α	Insulation	J= Insulation		BLANK=Non-insulated structure		
В	Data Rate	3=155M				
С	Wavelength	1=1270~1620nm				
D	Voltage	0=3.3/5V	3=3.3V		5=5V	
Е	Pin Type	0= pin-A		D= pin-D		
F	Ferrule sets of type	BLANK=Without the ceramic sleeve and Without the fiber-stub	B=With a ceramic sleeve		M= with a split sleeve and the MM fiber-stub	



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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