

622M PIN-TIA Receiver with Receptacle Modules

HESC-ROSAXX513XX

Features:

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



- 622M application
- ◆ SDH/SONET application

General:

HESC-ROSAXX513XX Series is a 4 pin or 5 pin PIN-TIA with receptacle operating on 622M. 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 $\acute{Q}2.5$ mm ferrule.

Ordering Information: (Standard version *Note1)

Part No.	Insulation	Voltage (V)	Pin Type	Ferrule sets of type
HESC-ROSA55130B	NO	3.3	Α	Ceramic sleeve
HESC-ROSA6J5130	YES	3.3	Α	No ceramic sleeve
HESC-ROSA5513D	NO	3.3	D	No ceramic sleeve
HESC-ROSA6J513DB	YES	3.3	D	Ceramic sleeve

^{*}Note1: For more ordering information, please refer the Nomenclature and contact HighEasy sales.

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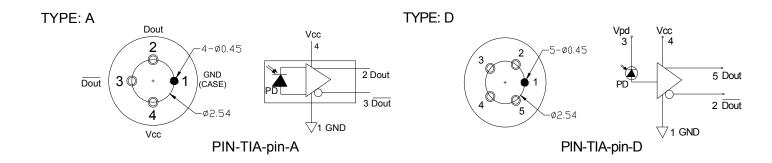
Absolute Maximum Ratings:

Parameter	Min.	Тур.	Max.	Unit
Storage Temperature	-40	25	85	$^{\circ}$
Operating Temperature	-40	25	85	$^{\circ}$
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	435			MHz	
Low-Frequency Cut off	LF			5	kHz	
Sensitivity			-32	-30	dBm	1310nm,622M, BER=10 ⁻¹⁰ @ PRBS= 2 ²³ -1
Single Ended Output Impedance	R		50		Ω	
Rise /FallTime	Т			4.5	ns	10~90%

Pin Assignment: *Note2

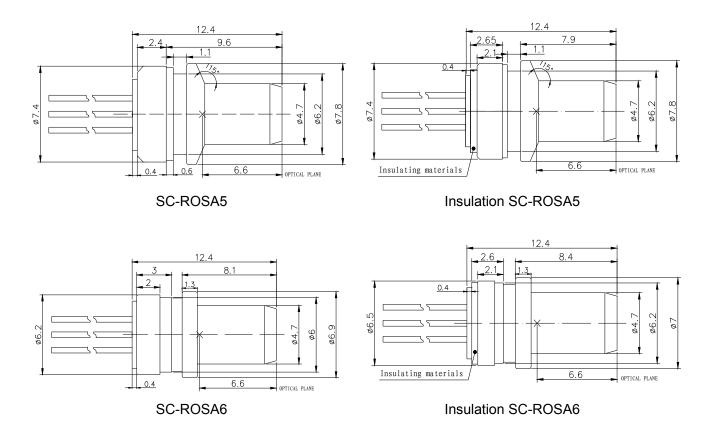


Note2: Other Pin type can be customized.

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Package Dimension: *Note3



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

Nomenclature:

Α	Split sleeve Type	5=ROSA5		6=ROSA6		
В	Insulation	J= Insulation		BLANK=Non-insulated structure		
С	Data Rate	5=622M				
D	Wavelength	1=1270~1620nm				
Е	Voltage	3=3.3V				
F	Pin Type	0= pin-A	0= pin-A D= pin-D			
G	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	

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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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