

1310 nm 2.5 Gbps CATV/Analog ST ROSA

MI2X-9053-x Series

TYPE NAME: MI2X-9053-JV

Product Description:

The LuxNet MI2X-9053-x ROSA is designed for 2.5G CATV/Analog applications. This device packaged our high-speed 1310 nm PIN detector into a TO-46 header with cap window. The ROSA integrated with a ST fiber connector to transmit the light from fiber through a receptacle into the PIN detector with high coupling efficiency.

Product Specifications:

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T _{op}	°C	-40	85	
Storage Temperature	T _{stg}	°C	-40	100	
Solder Reflow Temperature	T _{stg}	°C		260	10 seconds max.
Forward Current	I _f	mA		10	
Reverse Voltage	V _R	V		20	

Electro-Optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Responsivity	R	A/W	0.85	0.90		$\lambda = 1310 \text{ nm}$
Dark Current	I _D	nA		0.10	1.0	V _R = 5 V
Breakdown Voltage	V _{BR}	V	20			I _R = 1 μ A
Capacitance	C	pF		0.7	0.8	V _R = 2V, f = 1MHz
Rise/Fall Time	τ_r/τ_f	ps		90	100	V _R = 2V (20%-80%) R _L = 50 Ω
Cut-off Frequency	f _C	GHz	2.8	4.5		V _R = 2V, R _L = 50 Ω

