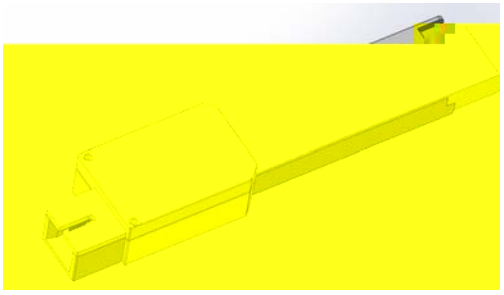
NG-PON2 ONU Optical Transceiver XFP Module

54 50Q Q 0.1D -G-PON2 ONU Opt24al TrThe ansceiver XF



Signal Level(LVTTL)	VOH	V	2.4	-	Vcc
	VOL	V	0	-	0.8
Optical transmitter Characteristics					
Data Rate		Mbps	--	2488.32	-
Wavelength Band Range 4	Q	nm	1532.68	-	1535.04
Center Frequency 4	c	Thz	195.6	-	195.3
Tuned Spectral Excursion		Ghz			20
Tuning Range		Ghz			400
Tuning Time (Channel to Channel)		msec			500
Launch Optical Power type B 5	P_o	dBm	0	-	+5
Off level light		dBm			-45
Burst turn on/off time	Ton/Toff	bit	-	-	TBD
Extinction Ratio 1	EX	dB	8.2	-	-
Eye Diagram	Compliant with ITU-T G.989.2				
Transmitter dispersion penalty 2	TDP	dB	-	-	1
Optical receiver Characteristics					
Data Rate		Mbps	-	9953.28	-
Center Wavelength Range 4	(c	nm	1596.34		1598.89
Tuning Time (Channel to Channel)		msec			100
Receiver Sensitivity 3	S	dBm	-	-	-28.0
Overload Input Optical Power	Pin	dBm	-7.0		
LOS Optical Dessert 23	ER=8.2dB, BER=10 23	dB	-	-	-28.0

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Ordering Information

Part No	Specifications								
	Package	Data rate	Laser	Optical Power	Detector	Sensitivity	Top	Reach	Others
RTXM166-903	XFP	2.48832G US 9.95328G DS	C-band tunable DFB	+0~ +5dBm(type B)	L-band tunable APD	-28.0dBm @10e-3	0~70°C	20km	DDM,RoHS

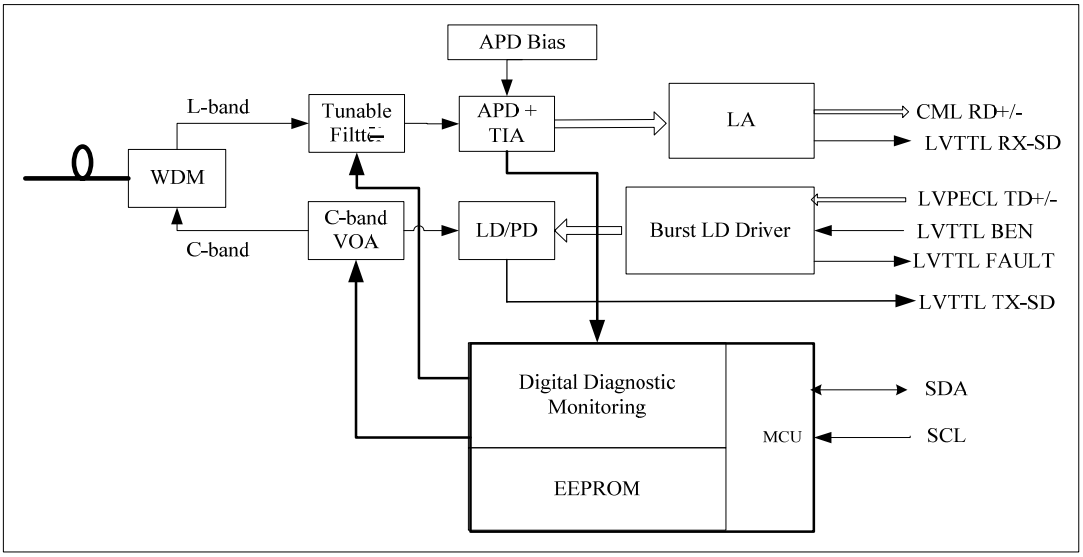
Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	oC	-40	+85
Relative Humidity	RH	%	5	95
Power Supply Voltage	Vcc	V	0	+4
Receiver Damage Threshold		dBm	+2	-

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	Tc	oC	0	-	70
Power Supply Voltage	Vcc	V	3.135	3.3	3.465

Principle diagram



Note: VOA is optional.

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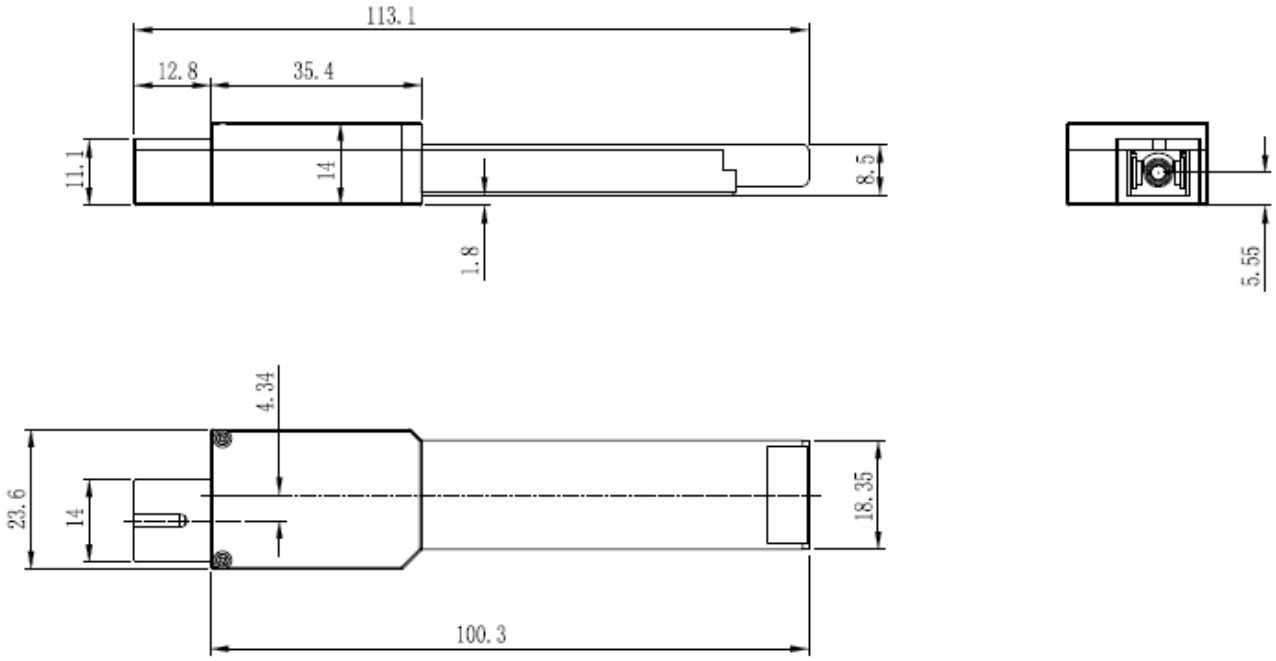
Package Outline(TBD)



Regulatory Compliance

Feature	Test Method	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1 (>1.5kV) – Human Body Model
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	LV4(Air discharge 15kV,Contact discharge 8kV) Performance criterion B
Electromagnetic Interference (EMI)	CISPR22 ITE Class B EN55022 Class B	Compliant with standards
Immunity	IEC61000-4-3 Class 2 EN55024	Typically show no measurable effect from a 3V/m field swept from 80 to 1000MHz applied to the transceiver without a chassis enclosure.
Eye Safety	FDA 21 CFR 1040.10 and 1040.11 UL TUV EN 60825-1	Compliant with Class 1 laser product