

GPON OLT 1490nm DFB 1310nm APD

1490nm DFB class-1 APC

APD

CID MAC SD SD

ONU

DDM

DDM

- ESD
- RoHs

Optical transceiver for Gigabit-capable Passive Optical Networks (GPON) Class C+ OLT ide

- ITU-T G.984.2 Class C+
- Small Form-factor Pluggable (SFP) Transceiver MultiSource Agreement July 5, 2000

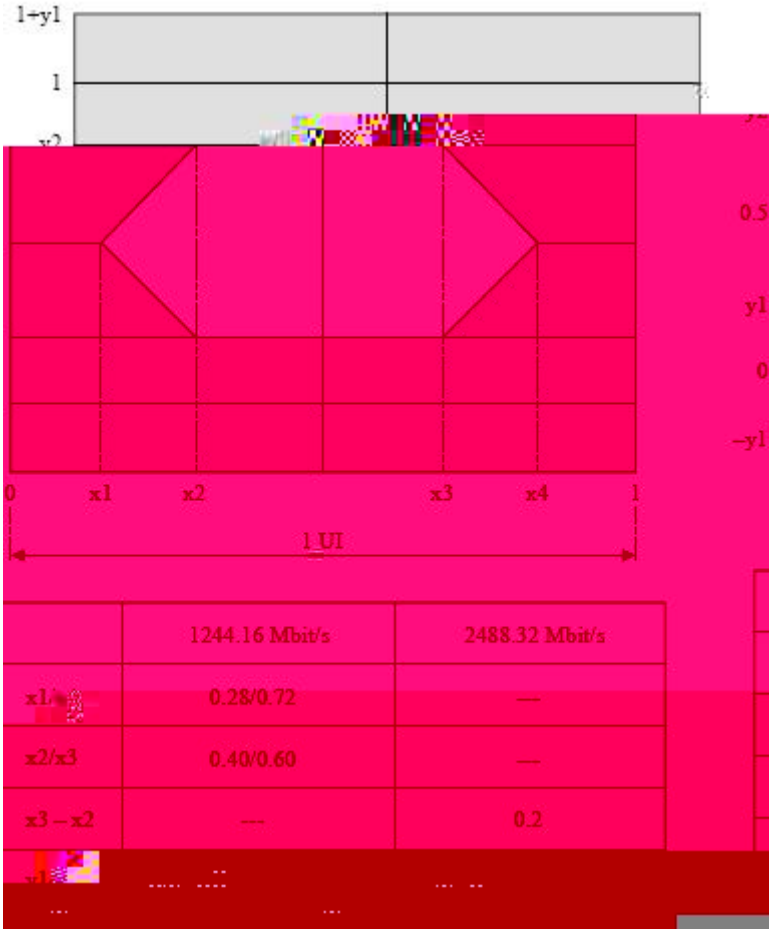
	V_{cc}	V	3.135	3.3	3.465
	T_{op}		0	ï	70
( )		Mbps	ï	2488.32	ï
( )		Mbps	ï	1244.16	ï

Part No	Specification									Application Code
	Package	TX DataRate	Laser	Optical Power	Detector	RX DataRate	Sensitivity	Temp	Standrad	
RTXM167-526	SFP	2.488Gb/s	1490nm DFB	3~7dBm	APD	1.244Gb/s	<-30dBm	0~70°C	GPON OLT Class C+	CLASS C+

Ports Definition

Parameter	Symbol	Unit	Min	Typ

Note1:AC coupled internal(see the recommended circuit below).
Note2:Coupled into 9/125 SMF
Note3:Measured without data input
Note4:Measured with PRBS 2^{23}-1 test pattern @2.488Gbps
Note5:Measured with the Bessel-Thompson filter OFF
Note6:Mask of diagram as below,



	1244.16 Mbit/s	2488.32 Mbit/s
x1/x4	0.28/0.72	—
x2/x3	0.40/0.60	—
x3 – x2	—	0.2

Signal Detect

Burst optical power conversion holding time	Holding Time	ns	350			Figure 2
Burst optical power conversion time		us			500	result can be read out since rising edge of the trigger pulse

Note7:Measured with PRBS 2^{23}-1 test pattern @1.244Gbps with Tx on,ER=10dB,BER<=10E-10.

Note8: Time from the arrival of data to the output data settling to within 15% of final amplitude and duty-cycle. It is shown in the Figure 1.

Note9: Time from a falling edge on reset signal input to the start of preamble at the data input of the receiver.

Note10: DC coupled internal. Need LVPECL terminal on the hostboard.

Note11: Time from end of previous data burst to beginning of next data burst.

Note12 Measured with PRBS23 Burst data pattern @1.244Gbps.