



RTXM266-706 product is designed for OLT module based on XGSPON technology. The product is an integrated module containing a micro-optic component and semiconductor material. The module could implement DDM function. It could be used at key locations in optical networks.

Specifications

Parameter	Symbol	Unit	Value		
			Min	typical	Max
Electrical Characteristics					
Supply Current	Icc	mA			1200
Maximum Peak Current	-	mA			2000
Differential Input Swing (note1)	-	mV	120		1000
Differential Output Swing (note2)	-	mV	600		1000
Optical transmitter Characteristics					
Launch Optical Power	Po	dBm	+2		+6
Center Wavelength	λ	nm	1575		1580
Extinction Ratio -10G	EX	dB	8.2		
Spectral Width(@-20dB)	Δλ	nm			1
Side Mode Suppressing Ratio	SMSR	dB	30		
Eye Diagram	Complies with G.987.2 (10% margin)				
Dispersion Penalty	-	dB			1.0
Pout @TX-Disable Asserted	Poff	dBm			-39
10G Optical receiver Characteristics					
Receiver Optical Wavelength	λIN	nm	1260		1330
Receiver Sensitivity (note3)	S BOL	dBm			-29.0
	S EOL				-28.0
Overload Input Optical Power	Pin	dBm	-5		
SD Assert		dBm			-30
SD De-assert		dBm	-45		
Hysteresis		dB	0.5		6
Receiver Settling Time		ns			400
Dynamic Range	-	dB	15		
2.5G Optical receiver Characteristics					
Receiver Optical Wavelength	λIN	nm	1260		1330
Receiver Sensitivity (note4)	S BOL	dBm			-28.5
	S EOL				-27.5
Overload Input Optical Power	Pin	dBm	-7		
SD Assert					

Dynamic Range	-	dB	15		
1. AC coupled internally; 2. DC coupled internally; 3. Measured with a PRBS $2^{31}-1$ NRZ test pattern, @9.953Gb/s, EX=8.2dB, BER<10^{-3} 4. Measured with a PRBS $2^{23}-1$ NRZ test pattern, @2.488Gb/s, EX=8.2dB, BER<10^{-4}					

Ordering Information

Part No	Specification								
	Package	Data rate	Laser	Power	Detector	Sensitivity	Temp	Reach	Center Wavelength(nm)
RTXM266-706	XFP SC	9.953/9.953&2.488	EML	+2~+6dBm	APD	< -28dBm	0~70°C	20km	1577nm

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	+3.6

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	Tc	oC	0	-	70
Power Supply Voltage	Vcc	V	3.13	3.3	3.47
Power Consumption	P	W			4.0

XGS

