

Features

Applications

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Standards

- ah^{TM}
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Descriptions

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Block diagram

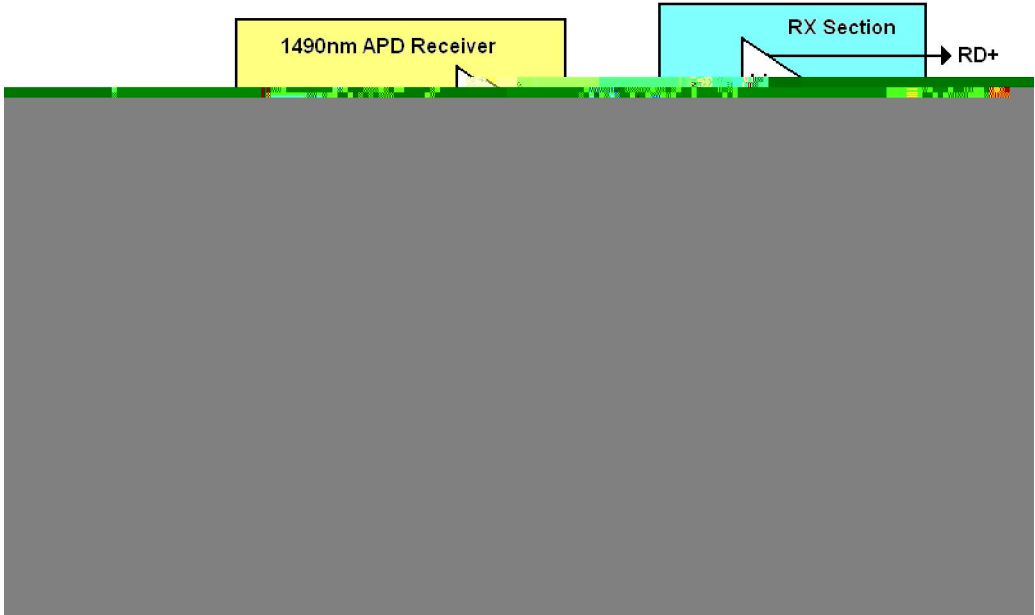


Figure 1

RTXM170-501

Optical and Electrical Characteristics

 T_o $\mathcal{C}$ $\mathcal{C}$

Parameter	Symbol	Unit	Min	Typ	Max	Note
Digital Transmitter						
	$\Delta\lambda$					
				a_h^{TM}		
Digital Receiver						
Analog Receiver						

Coupled into 9/125um.

Measured with PRBS 2⁷-1 test pattern @ 1.25Gbps.

Refer to Timing Parameter Definition in Burst Mode Sequence, See Figure 4.

Measured with the Bessel-Thompson filter ON.

DC coupled internally and terminated internally (see the recommended circuit below).

See Figure 5.

Measured with PRBS 2⁷-1 test pattern @ 1.25Gbps with TX on, ER=10dB, BER=10E-12.

An increase in optical power above the level will cause the Signal Detect output to switch from a low state to a high state, Refer to Timing Parameter Definition of RX ALM Assert/Dessert time, see Figure 6.

A decrease in optical power below the level will cause the Signal Detect output to switch from a high state to a low state, Refer to Timing Parameter Definition of RX ALM Assert/Dessert time, see Figure 7.

AC coupled internally (see the recommended circuit below).

Test from 45MHz to 1000MHz.

Test at -6~+2dBm Optical Input Power, The 79 analog(NTSC) channels (OMI4.3%) and 79 digital(64 or 256 QAM) channels (OMI2.15%). The equivalent value of the digital channels' RF level is 6dB lower than the analog channels'.

Test at -6dBm Optical Input Power, The 79 analog(NTSC) channels (OMI4.3%) and 79 digital(64 or 256 QAM) channels (OMI2.15%). The equivalent value of the digital channels' RF level is 6dB lower than the analog channels'.

Test at +2dBm Optical Input Power, The 79 analog(NTSC) channels (OMI4.3%) and 79 digital(64 or 256 QAM) channels (OMI2.15%). The equivalent value of the digital channels' RF level is 6dB lower than the analog channels'.

Test from 45MHz to 1000MHz.

**Within 15% of optical
steady state**

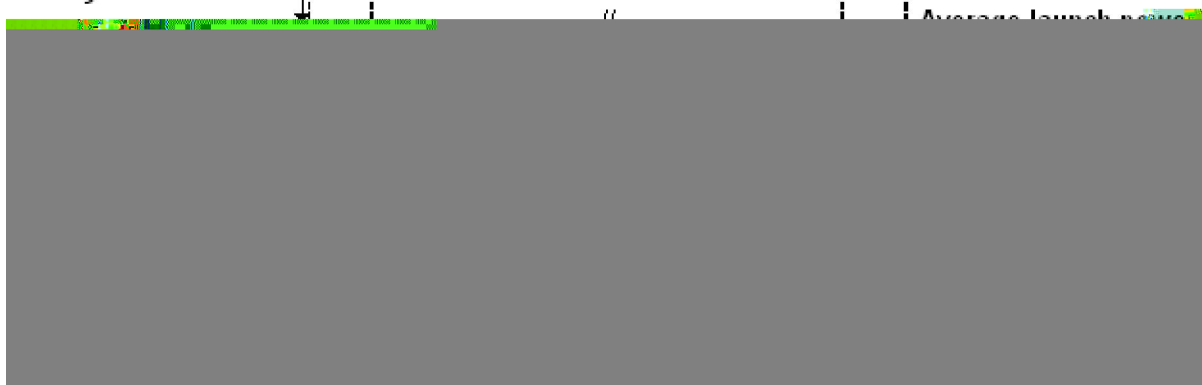


Figure 4

Regulatory Compliance

Feature	Test Method	Performance

Ordering Information

Specifications		
Part No.		Application

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The length of pigtail is normal 255mm±20mm (the length of connector is included).