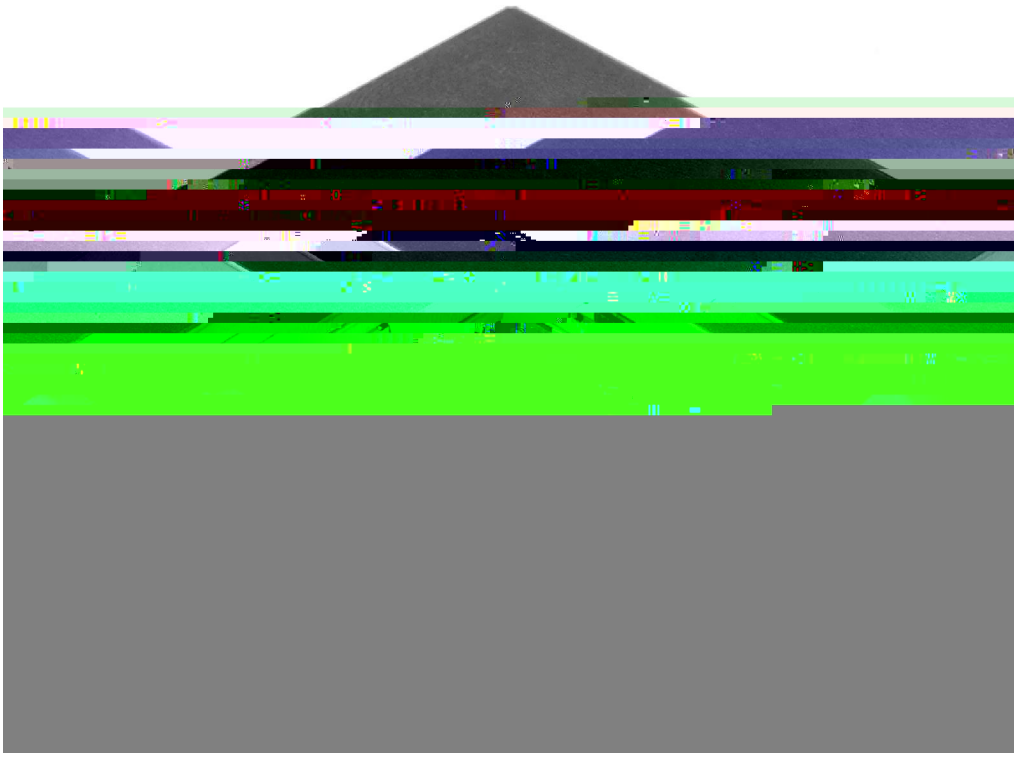

GPON ONU Triplexer Transceiver

RTXM170-601-C45

Features

- *Single Fiber Triplexer*
- *1.25Gbps data upstream /2.5Gbps data downstream /45~1002MHz CATV analog signal downstream*
- *Burst mode transmission with 1310nm DFB laser*
- *Continuous mode digital receiver with 1490nm APD-TIA*
- *Analog CATV receiver with 1555nm InGaAs PIN detector*
- *+3.3V / +12V power supply*
- *LVPECL compatible data input*
- *CML compatible data output*
- *CML transmitter burst-mode control*
- *LVTTL I2C DDM interface*
- *LVTTL TX_SD and RX_SD*
- *Soft Enable/Disable TX and Video*
- *Fully RoHS Compliant*
- *All metal housing for superior EMI performance*
- *Excellent ESD/TVS protection*
- *0℃ to 85℃ operating case temperature*
- *1×20 Pin and 2"×2" Package*
- *3PIN RF output connector*
- *Real time monitoring of:*
  - *Temperature*
  - *Supply voltage*
  - *Laser bias current*
  - *Transmitted optical power*
  - *Received optical power*
  - *Video Received optical power*
  - *RF Output level*

RTXM170-601-C45

Applications

- *GPON ONU Side*
- *Voice / Data / Video FTTx*

Standards

- *ITU-T G.984.2 Class B+*
- *ITU-T G.984.5*
- *SFF-8472 Rev 9.5*
- *RoHS 6*

Descriptions

℃

Block diagram

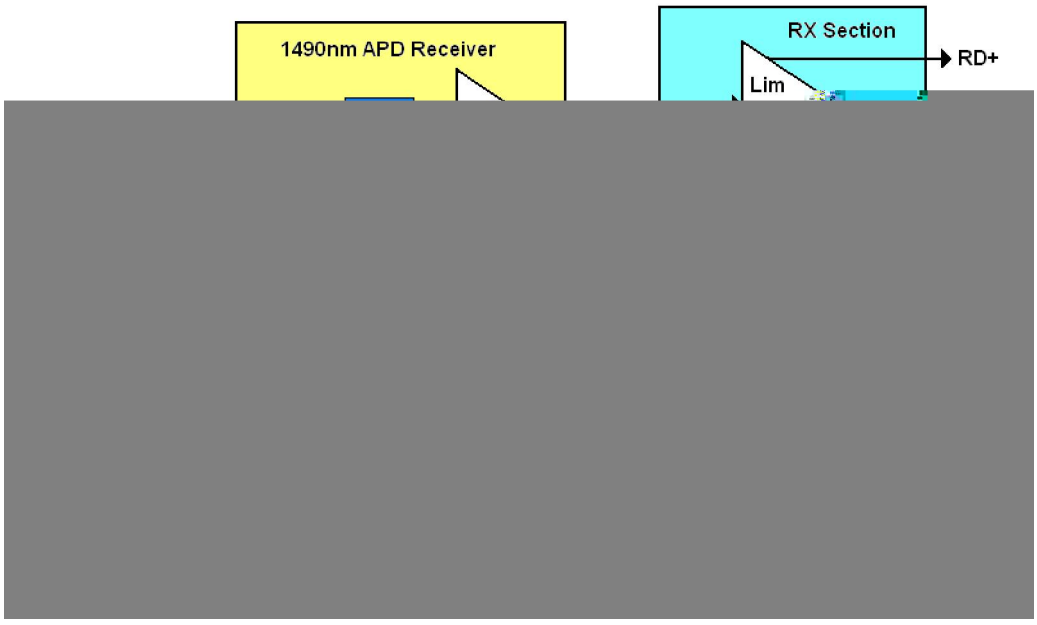

Figure 1

Optical and Electrical Characteristics *(T_O =0 ℃ to +85 ℃)*

Parameter	Symbol	Unit	Min	Typ	Max	Note
Digital Transmitter						
	$\Delta\lambda$					
Digital Receiver						

Analog Receiver	
IIC Interface	

Note 1:

Note 2:

Note 3:

Note 4:

Note 5:

Note 6:

Note 7:

Note 8:

Note 9:

Note 10:

Note 11:

Note 12:

Note 13:

Note 14: , (%)

Regulatory Compliance

Feature	Test Method	Performance

Ordering Information

Part No.	Specifications	Application
	×	

Note1 : ±

Note2 :