EPON ONU Triplexer Transceiver

RTXM170-501

Features

- *Single Fiber Triplexer*
- *1.25Gbps data upstream and downstream /45~1000MHz CATV analog signal downstream*
- *Burst mode transmission with 1310nm FP laser*
- *Continuous mode digital receiver with 1490nm PIN-TIA*
- *Analog CATV receiver with 1550nm InGaAs PIN detector*
- *+3.3V / +12V power supply*
- *LVPECL compatible data input*
- *CML compatible data output*
- *LVPECL transmitter burst-mode control*
- *LVTTL I2C DDM interface*
- *LVTTL TX_SD/RX_SD/Video_SD*
- *Soft Enable/Disable TX and Video*
- *Fully RoHS Compliant*
- *All metal housing for superior EMI performance*
- *Excellent ESD/TVS protection*
- *0℃ to 70℃ operating ambient 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*

Applications

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

Standards

- *IEEE Std 802.3 ah™ -2004*
- *SFF-8472 Rev 9.5*
- *1000 BASE-PX20-U*

Optical and Electrical Characteristics *(T_O =0℃ to 70 ℃)*

Parameter	Symbol	Unit	Min	Typ	Max	Note
Digital Transmitter						

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: (%)

(%)。

Note 15:

Figure 4

Regulatory Compliance

Feature	Test Method	Performance

Ordering Information

Part No.	Specifications	Application

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Note : ±