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-  Base Station
-  Ethernet
-  Eval Kits & Accessories
-  Fieldbus/SERCOS Interface
-  General Purpose, Industrial Control Data Link (1300nm)
-  General Purpose, Industrial Control Data Link (650nm)
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-  Metro/Sonet
-  Parallel Optics
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Products > Fiber Optics > Metro/Sonet > OC-48 > AFCT-5941xTxZ



AFCT-5941xTxZ

Single Mode SFF Transceivers for SONET OC-48/SDH STM-16 Multirate Operation (Part of the Avago Technologies' METRAK family)

All Detail Applications

Description

The AFCT-5941xTxZ are high performance, cost effective modules for serial optical data communications applications. They are designed to provide SONET/SDH compliant links at 2488 Mb/s for intermediate reach links.



The modules are designed for single mode fiber and operate at a nominal wavelength of 1300 nm. They incorporate high performance, reliable, long wavelength optical devices and proven circuit technology to give long life and consistent service. The transmitter in the AFCT-5941TLZ/ATLZ/TGZ/ATGZ uses a Distributed Feedback (DFB) Laser. The transmitter has full IEC 825 and CDRH Class 1 eye safety.

 Lifecycle status: **Active**















For each device the receiver section uses an MOVPE grown planar SEDET PIN photodetector for low dark current and excellent responsivity.

A positive ECL logic interface simplifies interface to external circuitry.

The transceivers are supplied in the new industry standard 2 x 5 DIP style package with the LC fiber connector interface and is footprint compatible with SFF Multi Source Agreement (MSA).



Features

-  AFCT-5941TLZ/ATLZ: Links of 15 km with 9/125 μ m single mode fiber (SMF)
-  Multisourced 2 x 5 package style with LC receptacle
-  Single +3.3 V power supply
-  Temperature range:
 -  AFCT-5941TLZ/TGZ: 0°C to +70°C
 -  AFCT-5941ATLZ/ATGZ: -20°C to +85°C
-  Wave solder and aqueous wash process compatible
-  Manufactured in an ISO9002 certified facility
-  RoHS compliant
-  Fully Class 1 CDRH/IEC 825 compliant
-  Compliant with ITU-T G.957, STM-16, I-16 and S-16.1 Optical Interfaces
-  AFCT-5941TLZ/ATLZ: with EMI nose shield
-  AFCT-5941TGZ/ATGZ: no EMI nose shield
-  Receiver output squelch function enabled

Applications


-  SONET/SDH equipment interconnect

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