

Hybrid Connector and Media Converter

CTF-1G-SM



FEATURES

- + Gigabit Ethernet
- + Optical fiber link distances to 10 km
- + Maximum optical channel bit error rate less than 10×10^{-9}

FIBER INTERFACE

- + Uses industry standard M29504 fiber terminus interface

COPPER INTERFACE

- + Low profile, high speed connector
- + Flexible ribbon cable

RUGGEDIZATION

- + Natural convection cooled (no fan)
- + Operational temperature -40°C to $+85^{\circ}\text{C}$
- + Refer to page 3 for additional details

OVERVIEW

Amphenol Aerospace adds CTF-1G-SM to the CTF (Copper to Fiber) Media Converter Product Family. This product line is rugged, flexible, and affordable with many options available.

Specifications

Electrical Specifications

Parameter	Symbol	Typ	Max	Unit
Supply Voltage	V _{cc}	3.3	-	V
Supply Current (Tx+Rx)	I _{cc}	280	400	mA
Power Consumption (Tx+Rx)	P	940	1320	mW
Rx Output Current	I _{ccRx}	50	-	mA



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Specifications

Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Optical Output Power	P_{OUT}	-	-	-4.0	dBm
Optical Output Wavelength	λ_C	1290	1310	1330	nm
Spectral Width	$\Delta\lambda$	-	-	3.0	nm
Extinction Ratio	E_R	9.0	-	-	dB
Rise/Fall Time	τ_R, τ_F	-	-	150	ps
Receiver Sensitivity	P_{IN}	-25	-	-	dBm
Receiver Wavelength	λ_{Rx}	1100	-	1650	nm

Available Test Equipment

Part Number	Description
CF-901201-006	LC Fiber Optic Test Cable for D38999 Connector
CF-020005-099	SMA Test Board for Samtec Connector

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Overview

Amphenol integrated electronic products are designed and manufactured to our Ruggedization guidelines listed below. These guidelines ensure years of reliable operation in harsh environment applications where extreme operating temperatures, shock, vibration and corrosive atmospheres are regularly experienced

Temperature

- Operating Temperature - Thermal Cycles between -40°C and 85°C while device is operating
- Temperature is measured at chassis housing or card edge
- Storage Temperature - Thermal Cycles between -55°C and 125°C

Humidity

- Operating Humidity – Humidity cycle between 0-100% non-condensing humidity while device is operating
- Storage Humidity – Humidity cycle between 0-100% condensing humidity

Sealing

- Sealing can be optionally provided at the MIL-DTL-38999 interface with up to 10-5 cc/sec performance

Fluids Susceptibility

- MIL-DTL-38999 receptacle interface per EIA-364-10E

Vibration & Shock

- Sine Vibration – 10 g Peak, 5-2,000Hz
 - Based on a sine sweep duration of 10 minutes per axis in each of three mutually perpendicular axes. May be displacement limited from 5 to 44 Hz, depending on specific test.
- Random Vibration - 0.005@5Hz, 0.1@15Hz, 0.1@2,000Hz
 - 60 minutes per axis, in each of three mutually perpendicular axes.
- 40 G Peak Shock Cycle
 - Three hits in each axis, both directions, ½ sine and terminal-peak saw tooth, Total 36 hits.

Altitude

- -1,500 to 60,000 ft Altitude Testing w/ Rapid Depressurization

Electromagnetic Compatibility

- Designed to comply with MIL-STD-461E

Printed Circuit Board Assemblies

- Conformal Coat
 - Amphenol performs Conformal Coating to both sides of printed circuit board assemblies using HUMISEAL IB31 in accordance with IPC-610, Class 3.
- Printed Circuit Board Rigidity
 - Amphenol printed circuit boards are fabricated in accordance with IPC-6012, Class 3.
- Printed Circuit Board Fabrication
 - Amphenol printed circuit boards acceptance criteria is in accordance with IPC-610, Class 3.

Reliability Predictions (MTBF)

Amphenol can perform Mean Time Between Failure (MTBF) reliability analysis in full compliance with MIL-HDBK-217F-1 Parts Count Prediction and MIL-HDBK-217F-1 Parts Stress Analysis Prediction. We can also perform reliability analyses in full compliance of ANSI/VITA 51.1 if it is required or preferred over the later method.

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