

PRODUCT INFORMATION

VIDEO PIN/TIA



AFE warrants products do not contain any Restricted Hazardous Substances as detailed in RoHS (2002/95/EC)

AFE delivers a portfolio of pin/tia suitable for HDTV at 1.485 Gbits/sec

APPLICATIONS

HDTV Optical Fibre Video links

HDTV television broadcast equipment is increasingly choosing optical fibre to manage the required bandwidth and transmission distances.

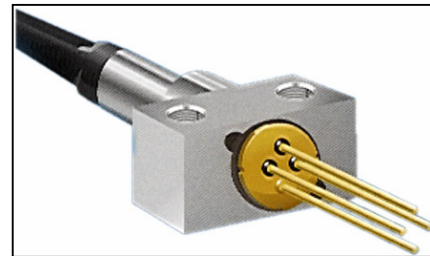
HDTV standard SMPTE 292M specifies a datarate of 1.485Gbits/sec.

PIN/TIA devices developed for Telecoms have too high a low frequency cut off and do not pass the pathological data requirements

AFE has delivered a range of optical fibre aligned PIN/TIA devices which are fully compatible with SMPTE 292M including the pathological test.

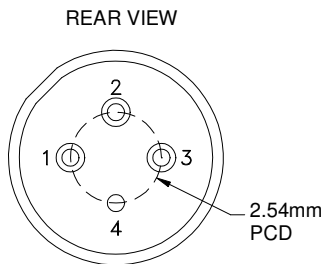
EXAMPLE VIDEO PIN/TIA

- 2.5Gbps InGaAs photodiode with integrated TIA.
- 5kHz low frequency cut-off.
- Compliant with HDTV standard SMPTE 292M
- Differential output and Automatic Gain Control.
- 3.3V supply voltage.
- Minimum sensitivity -22dBm at 1310nm.
- Operating temperature -40°C to +85°C.
- The device is electrically isolated from the housing.
- Hermetically sealed for high reliability and accurately aligned for optimum performance.



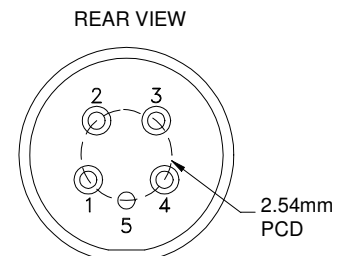
Example Pinout Details – No Current Monitoring

- 1 = +V_{OUT}
- 2 = V_{CC} (+3.3V)
- 3 = -V_{OUT}
- 4 = Case (0V)



Example Pinout Details –With Current Monitoring

- 1 = D_{OUT}
- 2 = V_{CC}
- 3 = Photodiode monitor
- 4 = -D_{OUT}
- 5 = Ground (case)



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