

050-602

Product Brief Fiber Optic Amplifier, 1 - 2W for Free Space Optical Link Applications Conduction Cooled for Operation in Vacuum Environment

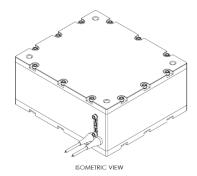
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050-602 PRODUCT BRIEF 1-2W Optical Fiber Amplifier Conduction cooling for operation in vacuum environment

Fiber Amplifier



The Glenair 050-602 is a ruggedized 1W or 2W ErYb-doped fiberoptic amplifier providing amplification in the 1535nm-1565nm wavelength region. The Fiber Amplifier is designed to operate in a vacuum environment with conduction cooling. The design has been ruggedized and optimized to operate over a wide temperature range. The power supply is designed to operate with 10 - 32 VDC.

KEY FEATURES/BENEFITS

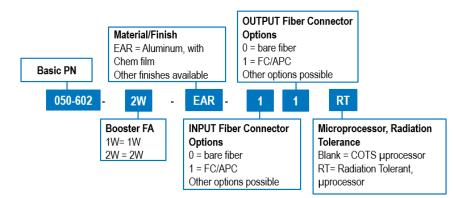
- SM Booster Fiber Amplifier with up to +33 dBm output power
- Typical NF < 7 dB
- Conduction Cooling
- Control & Telemetry via serial interface (RS422 / RS485)
- Operating Case Temperature, -5°C to +50°C
- Input power (Pin) -3 dBm < Pin < +12dBm</p>
- Pout Stability +/- 0.2dB

- Material: Aluminum 6061-T651
- Size: Approx. 8.8 cm x 10 cm x 4.5 cm
- Chassis Ground isolated from Signal Ground
- OPTIONAL: Radiation Tolerant Microprocessor with radiation performance as follows (uP only):
 No Single Event Latch-up Below an LET
 - Threshold of 60 MeV.cm2 /mg @125°C
 - Total Ionizing Dose of 30 krad(Si) RHA

APPLICATIONS

- Harsh Environments such as: Space, Airborne, Mobile, Tactical, Railway, Industrial, Oil and Gas and Shipboard applications
- CubeSats

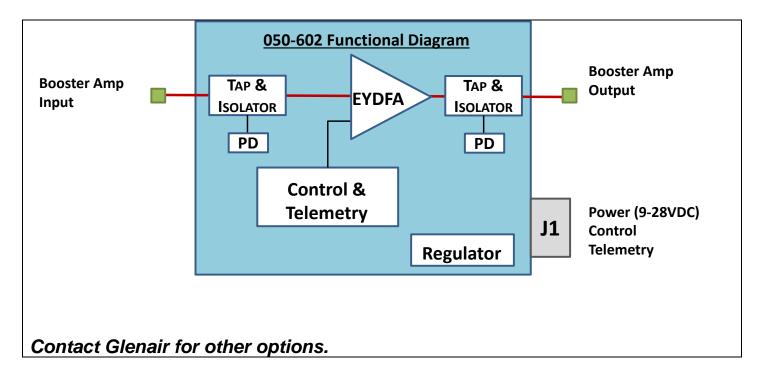
How To Order



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Functional Block Diagram



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