GAIN MODULES

Rugged erbium fibre amplifier modules

Embedded erbium-doped gain modules with separately specified booster and preamplifier performance.

Applications to discuss: Optical instrument integration; Optical sensor amplification.

Selection points
78 x 50 x 18 mm package / 19 dBm listed output limit / Booster and preamplifier configurations

Configuration options

Configuration	Optical wavelength range	Output power	Noise figure
Standard booster	1525 to 1590 nm	≤19 dBm	≤5.5 dB
Standard preamplifier	1525 to 1590 nm	≤19 dBm	≤3.7 dB

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Operating bandwidth	Typ. 34 nm
Small-signal gain	Standard preamplifier: >38 dB
Control modes	ACC, APC, AGC
Dimensions, length x width x height	78 mm x 50 mm x 18 mm

Integration and delivery

Item	Configuration detail
Integration	Embedded electronics; PM or non-PM optical options
Electrical and optical interfaces	RS232 or RS485 and connectors depend on the selected module; confirm pinout and optical delivery

Conditions and configuration notes

• The selected operating band is narrower than the overall family wavelength coverage; the bandwidth entry describes the individual configuration.

• ACC: automatic current control; APC: automatic power control; AGC: automatic gain control.

• The rugged format does not establish a particular environmental qualification for a new installation. Review test reports and the required temperature range.