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General information for high power optical amplifier

Summary

Optical amplifiers (OAs) are necessary components as booster, line and pre-amplifiers for current optical network systems. Recently, high optical output power amplifier is used in Passive optical network (PON) system and CATV systems. Although OAs with high optical power which has more than 27 dBm are deployed in field, there are very few documents addressing high optical power.

This technical paper provides a better understanding of high power amplifier, especially based on cladding pump technology as well as concerning on handling high optical power.