

Optical Fiber Amplifiers

Extended temperature low noise cards

The DZS suite of low-noise Optical Fiber Amplifier (OFA) cards delivers efficient, cost-effective optical reach extension in metro, regional and long-haul applications. Supporting up to 80 ITU-T DWDM wavelengths, they provide a flexible solution for a range of DWDM applications, including fixed and reconfigurable OADM (ROADM) architectures.

O-SERIES



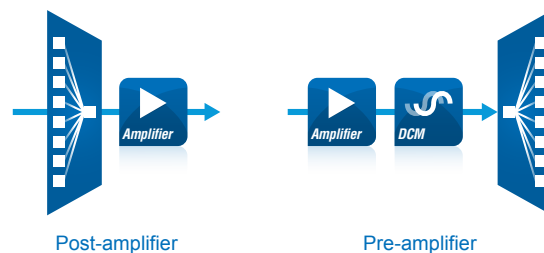
Features

- Support up to 80 DWDM wavelengths in the ITU C-band
- Fixed and variable gain models
- Mid-stage access for dispersion compensation
- Fast transient suppression
- Extended temperature range operation

Applications

- DWDM reach extension
- Metro, regional and longhaul networks
- ROADM and fixed OADM
- Mobile backhaul
- Outside plant

DZS OFAs are gain-flattened, low-noise, C-band erbium-doped fiber amplifier (EDFA) cards with fast transient suppression. Single-stage amplifiers have a fixed flat gain of 15, 20, or 25 dB, and a maximum output power of 17 or 20 dBm. They can be used in pre-, line-, or post-amplifier applications.



Dual-stage amplifiers support up to 10 dB of mid-stage access loss for dispersion compensation, with a user-provisionable flat gain range between 20 and 30 dB, and a maximum output power of either 17 or 20 dBm.

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Parameter	OFA-1715	OFA-1720	OFA-1725	OFA-1730	OFA-2015	OFA-2020	OFA-2025	OFA-2030
Type	Single-stage	Single-stage	Single-stage	Dual-stage integrated VOA mid-stage access	Single-stage	Single-stage	Single-stage	Dual-stage integrated VOA mid-stage access
Input power range (dBm)	-28 to 2	-33 to -3	-38 to -8	-33 to -3	-25 to 5	-30 to 0	-35 to -5	-30 to 0
Maximum output power (dBm)	17	17	17	17	20	20	20	20
Typical gain (dB)	15	20	25	20 to 30	15	20	25	20 to 30
Operating wavelength	1529 to 1562 nm							
Standard temperature range parameters								
Operating temperature	-5°C to 55°C (23°F to 131°F)							
Gain flatness peak - peak (maximum) (dB)	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5
Noise figure (dB)	5.5							
Extended temperature range parameters								
Operating temperature	-40°C to 65°C (-40°F to 149°F)							
Gain flatness peak - peak (maximum) (dB)	2.5	2.5	2.5	3.0	2.5	2.5	2.5	3.0
Noise figure (dB)	7.5							

Model number	Part number	Description
OFA-1715	1015-6601	OFA-1715 Amp, 17 dBm output power, 15 dB gain
OFA-1720	1015-6602	OFA-1720 Amp, 17 dBm output power, 20 dB gain
OFA-1725	1015-6607	OFA-1725 Amp, 17 dBm output power, 25 dB gain
OFA-1730	1015-6603	OFA-1730 Amp, 17 dBm output power, 30 dB gain, with VOA
OFA-2015	1015-6604	OFA-2015 Amp, 20 dBm output power, 15 dB gain
OFA-2020	1015-6605	OFA-2020 Amp, 20 dBm output power, 20 dB gain
OFA-2025	1015-6608	OFA-2025 Amp, 20 dBm output power, 25 dB gain
OFA-2030	1015-6606	OFA-2030 Amp, 20 dBm output power, 30 dB gain, with VOA

