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PRELIMINARY DATA SHEET | OCTOBER 9, 2008

NMOA8100 Series Erbium Doped Fiber Amplifier

Optical Amplifier Optical Ampli

The NMOA8100 series product line is a family of state-of-the-art high performance CATV erbium doped fiber amplifiers (EDFA). Packaged in a convenient 1RU housing, this line of fiber amplifiers uses the latest DSP technology at the core of electrical control circuitry resulting in superior output power stability & exceptionally low noise figures demanded by CATV applications.

The NMOA8100 provides very stable optical outputs over a wide operating temperature range. Internally it is supported with input and output isolators for enhanced system stability and performance. Optical power is continuously monitored at the input and output for automatic power control during operation over a wide operating temperature range.

The NMOA8100 offers a rich set of features. These include remote management capability through SNMPv2 and telnet. The NMOA8100 also supports MIBs specified by SCTE (Society of Cable Television Engineers) for this product class. Additionally, the front panel's LCD and button provides the operator with the option to both monitor the status of the amplifier and control/operate the amplifier locally.

Applications

- CATV Supertrunking
- Redundant Ring Architectures
- High Power Distribution Networks
- FTTx networks

Features

- High Saturation Output Power up to 27 dBm
- Dual Power Supplies, Redundant & Hot Swappable – AC or DC
- Front Panel Optical Input & Output
 Monitor ports
- SNMPv2 Control Interface
- Low Noise Figure for CATV
- Wide Input Dynamic Range
- Very Stable Output Power Over a Wide Operating Temperature Range
- Optional Automatic Gain Control or Constant Output Power Operation
- Optional Gain Flatness
 Specifications



Optional Features

- Automatic power control and/or automatic gain control modes.
- Port count, optical power, and connector style options
- Gain flattened options for WDM applications

Monitors and Alarms

- Loss of input signal
- Loss of output power
- Pump laser diode bias current
- Pump LD Temperature
- Case Temperature
- Redundant Power Supplies
- Redundant Fans

Electrical Characteristics

PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
AC Power Supply Voltage	V_{AC}	85		265	V_{AC}
DC Power Supply Voltage	V_{DC}	-36	-48	-72	V_{DC}
Power Consumption Note 1	P _{TOT}			10	W

Note 1: 10 W valid at 0 dBm input and 14 dBm output power within specified operating temperature range. Contact Emcore Sales for specific model datasheets.

General Optical Characteristics

PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
Wavelength Range	V _{AC}	1528	1550	1562	nm
Input Power	P _{IN}	-10	0	12	dBm
Total Output Power Options Note 1	P _{OUT}	14		27	dBm
Output Power Delta to Nominal	$P_{OUT\Delta}$	-0.5		0.5	dB
Output Port Count Options (SC) Notes 1, 2	-	1		10	
Noise Figure Note 3	NF			5.0	dB
Optical Isolation	ISO	30			dB
Input Power Alarm	LOS	-12	-11	-10	dBm
Input Monitor Loss	I _{MON}	22	23	24	dB
Output Monitor Loss	O _{MON}	19	20	21	dB

Note 1: Total output power and number of ports varies by model type. Contact Emcore Sales for model specific datasheets

Note 2: Model types are specified by output power per port

Note 3: Test Condition with Input Power = 0 dBm (@ 1550nm)

Note 4: Specifications valid within operating temperature range.

Absolute Maximum Ratings

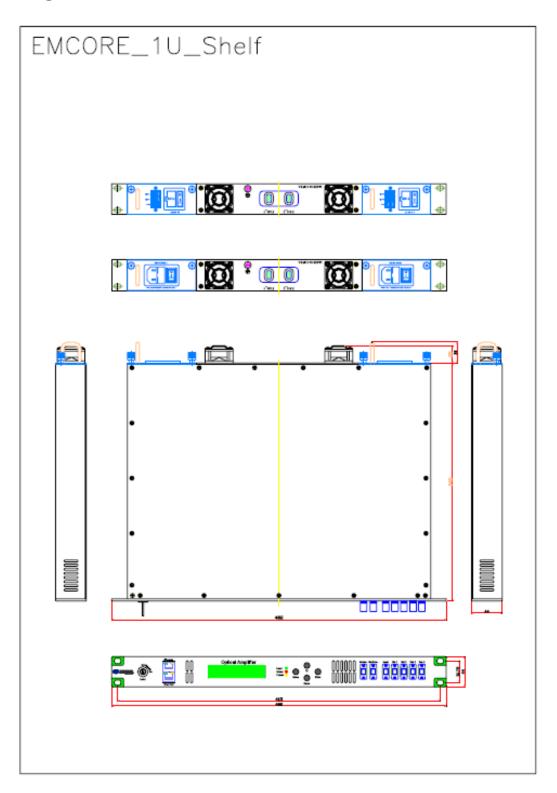
PROPERTY	SYMBOL	MIN	TYP	MAX	UNIT
Operating Temperature Range	ТО	0		50	°C
Storage temperature Range	TS	-40		85	°C
Relative Humidity	Н	0		95	%

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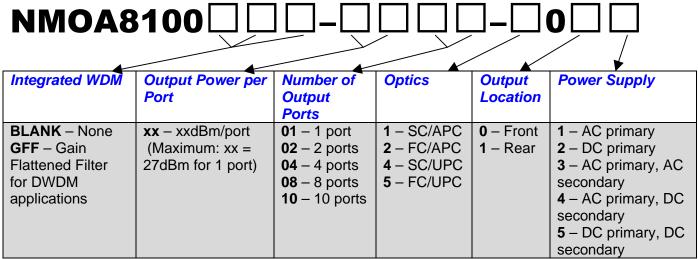
Outline Drawing







Model Number Information



Note 1: Not all configurations are available; please contact your EMCORE Sales representative.

- e.g. NMOA8100-1401-1005 (14 dBm per port, 1 port, SC/APC, front fiber, dual DC)
- e.g. NMOA8100-1708-1003 (17 dBm per port, 8 ports, SC/APC, front fiber, dual AC)

Laser Safety Information

FDA/CDRH Class IIIb and IEC 60825 Class 3B laser product All versions are Class 3B laser products per IEC 60825-1:1993

Caution: Use of controls, adjustment and procedures other than those specified heirin may result in hazardous laser radiation exposure.



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