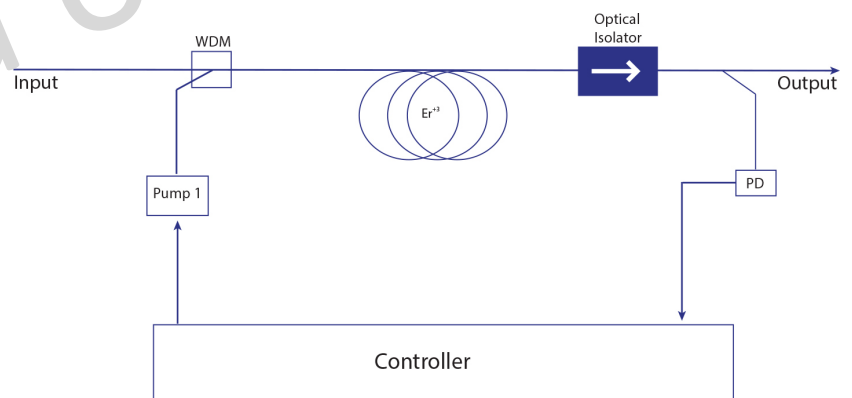
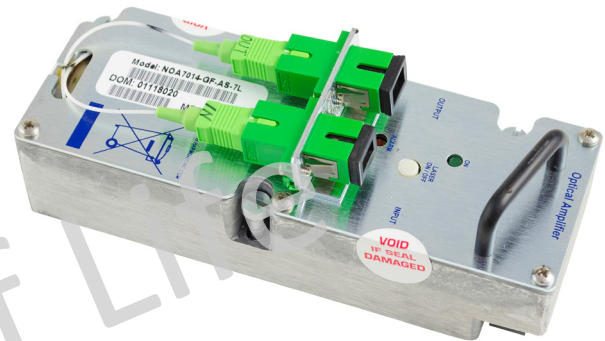


Optical Node Series (HL2)

NOA7014-GF and NOA7017-GF
HL2 Series PWRBlazer™ Node Optical Amplifier

FEATURES

- Compact module size
- Simple “plug and play” operation in the ARRIS nodes reduces time and cost of installation
- Gain flattened for flexible operation



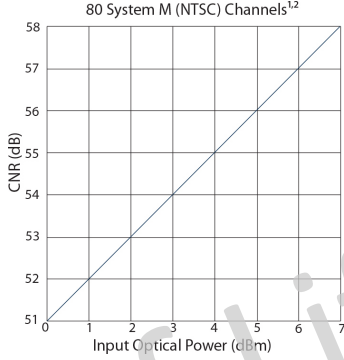
PRODUCT OVERVIEW

The ARRIS HL2 Series NOA7014-GF and NOA7017-GF Node Optical Amplifiers are designed for 1550 nm-based network applications. They provide a cost-effective solution for a variety of applications and architectures, including long haul applications that are beyond the reach of 1550 nm transmitters.

The NOA7014-GF or NOA7017-GF optical amplifier is built into ARRIS's standard single width optical node module. This enables the amplifier to be mounted in the ARRIS PWRBlazer™ Scalable and PWRBlazer II optical nodes. The ability to place an optical amplifier in a node provides a high degree of flexibility in design to the system operator.

The amplifier is gain-flattened, and hence is suitable for broadcast, narrowcast (DWDM) and return path applications.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	5.5" W x 2.0" H x 1.93" D (14 cm x 5.1 cm x 4.9 cm)
Weight	0.6 lbs (0.3 kg)
Environmental	
	Operates within ARRIS node. The ARRIS HL2 series nodes are specified to operate over ambient temperature range -40° to $+60^{\circ}\text{C}$ and relative humidity of 0 – 95%
Power Requirements	
Consumption	12.1 Watts maximum
	80 System M (NTSC) Channels ^{1,2}
	
Optical Amplifier Performance	
Carrier-to-Noise (CNR)	Shown in figure above
Carrier-to-CSO	≥ 80 dB
Carrier-to-CTB	≥ 80 dB
Optical Output	
Wavelength	1535 – 1565 nm
Output Power ³	$\geq +14$ dBm (25 mW) for NOA7014-GF $\geq +17$ dBm (25 mW) for NOA7017-GF
Input Range	-10 dBm to $+10$ dBm
2 dB Gain Tilt Input Range (dBm per wavelength)	<ul style="list-style-type: none"> 1549-1561 nm (C21-C35): -10 to $+1$ 1535-1546 nm (C39-C53): -7 to $+1$
Noise Figure	4.5 dB
Optical Return Loss	≥ 50 dB
Polarization Sensitivity	≤ 0.1 dB
User Interface	
Power on	Green LED
Output Alarm	Red LED
Shutdown DISABLE/ENABLE push button switch	

NOTES:

- Specifications for 80 unmodulated System M (NTSC) channels and 200 MHz digital at -10 dBc.
- For System B/G, I and D (PAL), decrease CNR by approximately 1 dB (5 MHz video bandwidth).
- Full output power achieved for optical power input of 0 dBm.

ORDERING INFORMATION

Part Numbers	Description
NOA7014-GF-xx	14-dBm Node Optical Amplifier
NOA7017-GF-xx	17-dBm Node Optical Amplifier
	xx = Connector type AS (SC/APC) or AE (E2000)

End of Life

RELATED PRODUCTS

HLN3144	HLN3142C
HLN3142E	

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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