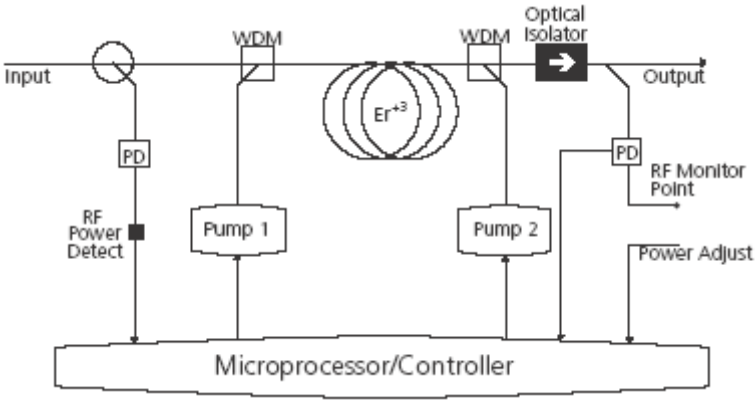
ARRIS HOA 7014-7021

MAXLINK 1550 NM OPTICAL AMPLIFIER

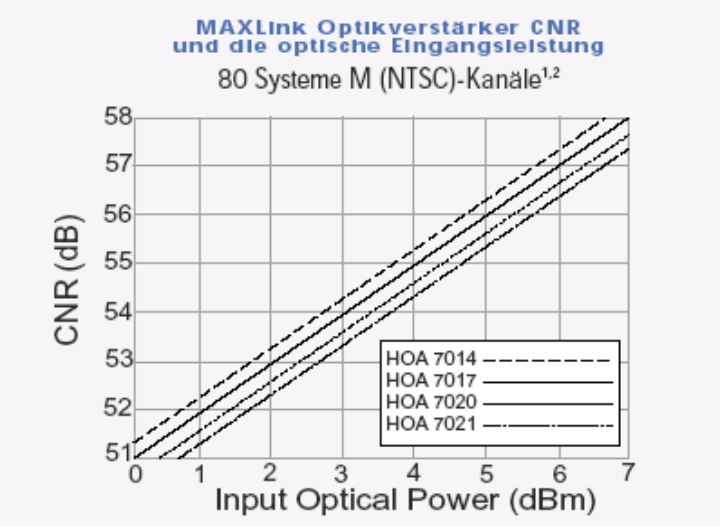
The Harmonic MAXLink transmission system is a family of transmitters and optical amplifiers designed for 1550 nm based network applications. The MAXLink system provides a cost-effective solution for a variety of applications and architectures, including long haul applications that are beyond the reach of 1310 nm transmitters and fiber dense architectures which take advantage of high power optical amplifiers. In addition, this system is ideally suited for new, evolving transport architectures such as redundant rings, broadcast layer transmission and hub interconnects used in broadband networks.

- Integrated element management intelligence with SNMP compatibility, enables seamless communication with comprehensive network management systems, without additional cost or complexity
- Microprocessor control of all key parameters provides consistent, optimum product performance and monitoring
- MAXLink optical amplifier and transmitter modules share a common platform with Harmonic's PWRLink 1310 nm transmitter family, enabling seamless network management integration of diverse equipment, providing user interface commonality, and maximizing rack space efficiency
- Dual pump configuration offers increased reliability and greater output power
- Simple plug&play operation reduces time and cost of installation

STANDARD CONFIGURATION



HOA 7014 verwendet eine einzelne optische Pumpe (Pumpe 1); alle anderen verwenden eine Doppelpumpen-Konfiguration.



Hinweis:
1. Spezifikationen für 80 unmodulierte System-M-(NTSC)-Kanäle und 200 MHz digital bei - 10 dBc.
2. Für B/G I und D (PAL) ist der Träger-Rauschabstand um ca. 1 dB zu verringern (5 MHz Video-Bandbreite).

SPECIFICATIONS

OPTICAL AMPLIFIER PERFORMANCE	
Carrier-to-Noise (CNR)	shown in figure above
Carrier-to-CSO	> 80 dB
Carrier-to-CTB	> 80 dB
All performance specifications are worst case.	
OPTICAL OUTPUT	
Wavelength	1535 - 1565 nm
Model HOA 7014 HOA 7017 HOA 7020 HOA 7021	**Output power (dBm)** 14 dBm (25 mW) 17 dBm (50 mW) 20 dBm (100 mW) 21 dBm
Optical power adjustment range	3 dB down from max.
Input range	- 10 dBm to + 10 dBm
Noise figure HOA 7014 HOA 7017 HOA 7020	 4,0 dB 4,5 dB 5,0 dB
Optical return loss	< - 50 dB
Polarization sensitivity	< 0,1 dB
Laser shutdown	Disable/enable switch
Eye protection	Safety shutter
NETWATCH ELEMENT MANAGEMENT SYSTEM	
NETWatch interface	RS-485, RS232C connectors (in HLP 4200)
POWER REQUIREMENTS	
Nominal	+ 24 VDC, supplied by HLP 4200 bus
Maximum	+ 26 VDC
Consumption	22 Watts maximum
USER INTERFACE	
Front panel Bi-state status LED Module selection indicator Auto/Manual LED Function slide switch and set-up adjustment	 normal = green, alarm = red yellow LED Auto = yellow
Monitor point Level Flatness Return loss Connector type	 + 4 dBmV per channel (typical 80 analog channels) ± 1 dB > 16 dB Male GSK
Rear panel Laser enable switch Laser disabled	 yellow LED

© 2019 Normann Engineering GmbH • Linzer Str. 139 • A-4600 Wels • T +43 (0) 7242 70 921-0 • office@normann-engineering.com • Irrtum, Satz- und Druckfehler vorbehalten

ENVIRONMENTAL	
Operating temperature range	0° bis + 50°C
Storage temperature range	- 40° bis + 70°C
Automatic 3-speed fan adjustment	40° & 50°C
Relative humidity	maximum 85 % non-condensing
Over temperature laser protection	Software and hardware
PHYSICAL	
Dimensions (WxHxD)	6,6 x 11,2 x 27,2 cm
Weight	1,8 kg
Mounting	HLP 4200 platform; one module slot
Optical connector type:	SC/APC

© 2019 Normann Engineering GmbH • Linzer Str. 139 • A-4600 Wels • T +43 (0) 7242 70 921-0 • office@normann-engineering.com • Irrtum, Satz- und Druckfehler vorbehalten