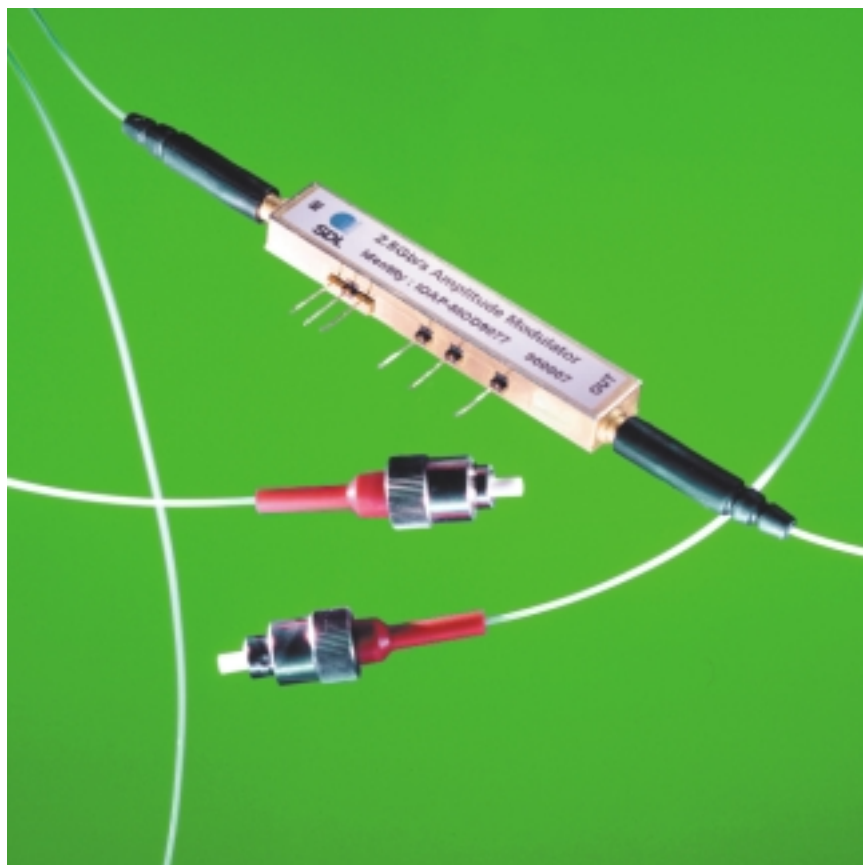


IOAP-MOD

9082



FEATURES

- Zero chirp to minimise chromatic dispersion
- True hermetic to Telcordia™ GR-468-CORE
- High on/off extinction ratio
- Wavelength insensitive for high channel count systems

APPLICATIONS

- Ideal for OC48 applications

OC48 2.5Gb/s amplitude modulator

The SDL 2.5Gb/s modulator has been designed to exceed the requirements of OC48.

Supplied in a hermetic package and

qualified to Telcordia GR-468-CORE, this product ensures high reliability and performance at all times.

Electro-Optical Performance

Parameter	Min	Value Typ	Max	Units
Optical				
Operating Wavelength	1525	-	1580	nm
Insertion Loss	2.5	3.8	5.5	dB
On/off Extinction Ratio (DC)	20	-	-	dB
Optical Return Loss	-	-	-45	dB

Electrical

RF Port				
Chirp	-	0 ±0.2	-	see note 1
S11 Return Loss (0.13 - 2.5 GHz)	-	-	-8	dB
V _{pi} (at 2.5Gb/s PRBS into 50Ω)	-	4.2	4.7	V
Extinction Ratio (at 2.5Gb/s PRBS)	13.0	-	-	dB
Rise/Fall Time (10%/90%)	-	-	120	ps

Parameter	Specification
Fiber	
Input	Fujikura SM-15-P-8/125-UV/UV-400
Output	Corning SMF-28

Packaging (details available upon request)

Environmental

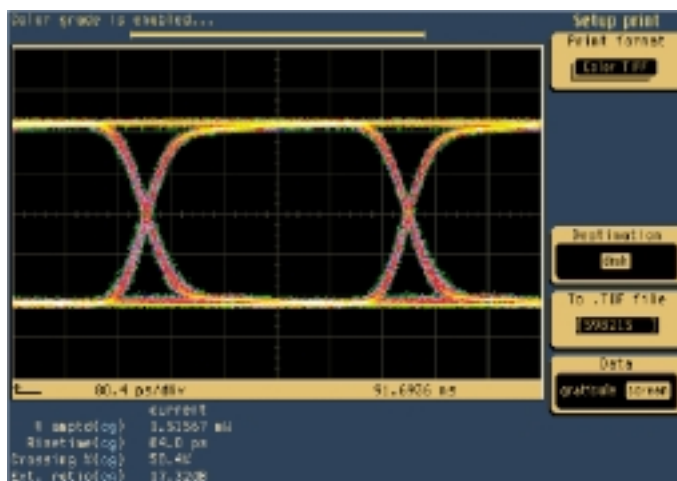
Qualification & Reliability	True hermetic to GR-468-CORE
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 80°C

Notes

1. Other chirp values are available on a custom basis.

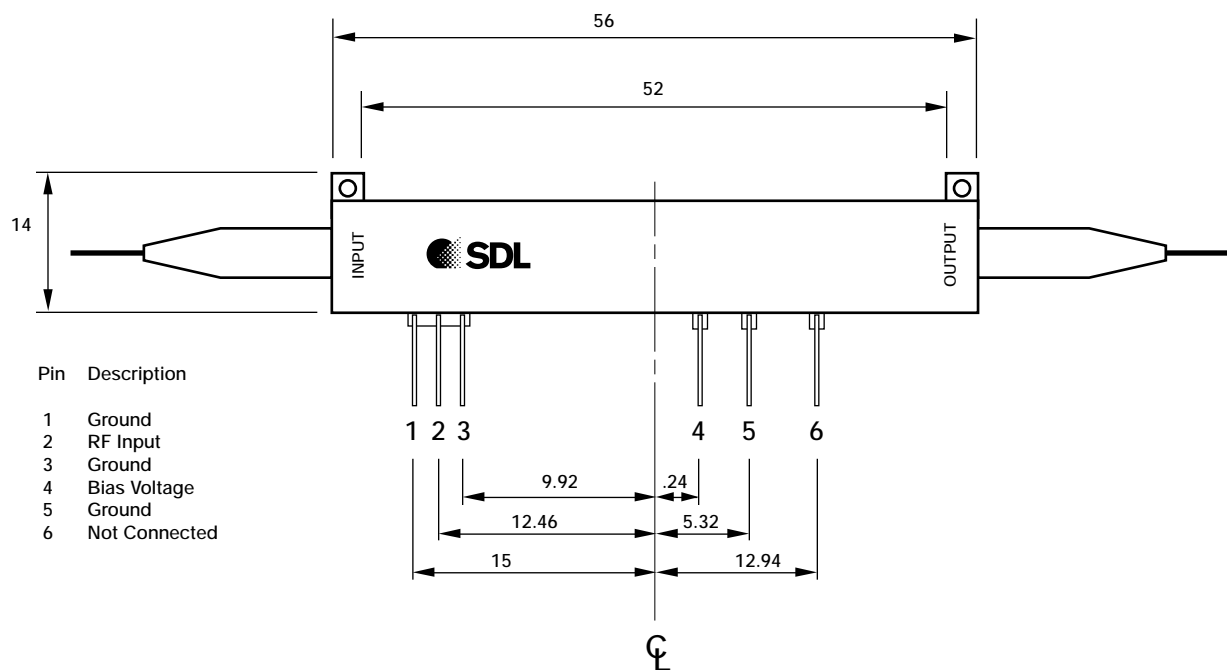
Performance

Eye Diagram



Outline Drawing

Dimensions in millimeters except where indicated



Ordering Information

Part Numbers & Options

IOAP-MOD-9082-N-M-P

Defines Output Tap Coupler Option

0 = No coupler (supplied as standard)

1 = 1% tap coupler (available to special order at additional cost)

Defines Output Connector Type

F = FC/PC connector (supplied as standard, at no additional cost)

B = Bare Fiber (available to special order at no additional cost)

Defines Input Connector Type

F = FC/PC connector (supplied as standard, at no additional cost)

B = Bare Fiber (available to special order at no additional cost)

Default part number is IOAP-MOD-9082-F-F-0 (modulators)



SDL, Inc.
80 Rose Orchard Way
San Jose, CA 95134-1365
Tel: 408-943-9411
Fax: 408-943-1430
E-mail: sales@sdli.com

SDL Integrated Optics Ltd.
3-4 Waterside Business Park
Eastways, Witham, Essex
CM8 3YQ, United Kingdom
Tel: +44 1376 502110
Fax: +44 1376 502125
E-mail: sdliosales@sdli.com

And for the latest information on all SDL products please visit our web site:

www.sdli.com

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