

HP 8164A
Lightwave Mainframe



\$6500.00

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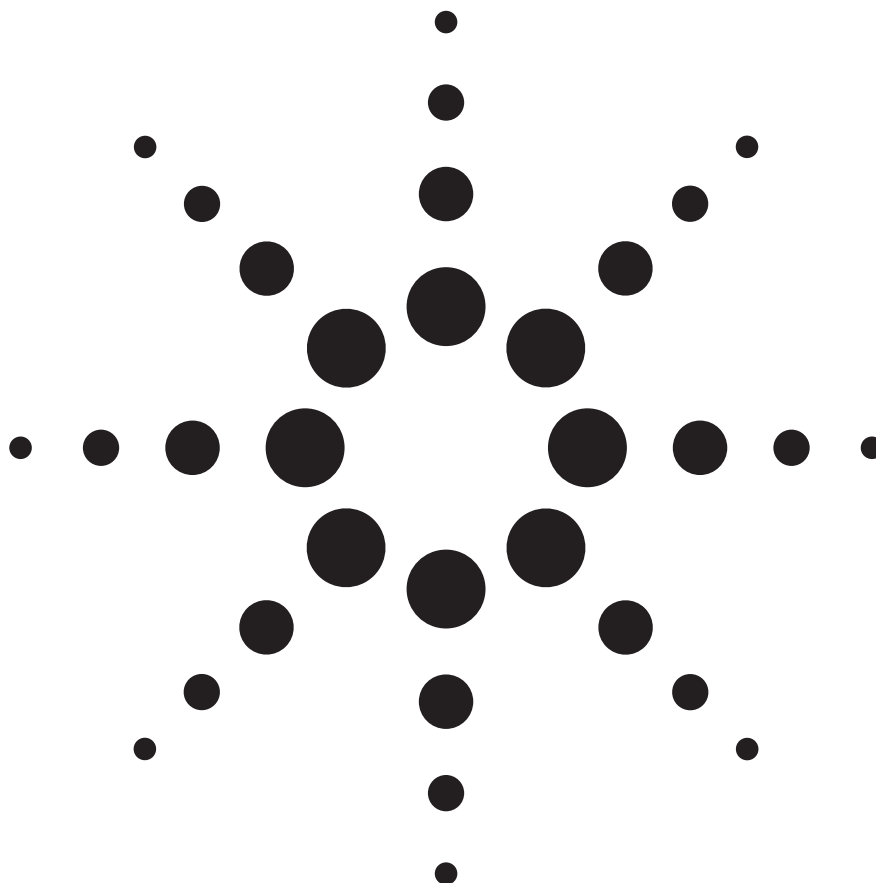
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Agilent 8163A/B Lightwave Multimeter
Agilent 8164A/B Lightwave Measurement System
Agilent 8166A/B Lightwave Multichannel System
Configuration Guide
June 2002



This guide provides configuration details for the Agilent 816x family of mainframes and modules, including options and accessories.



Agilent Technologies

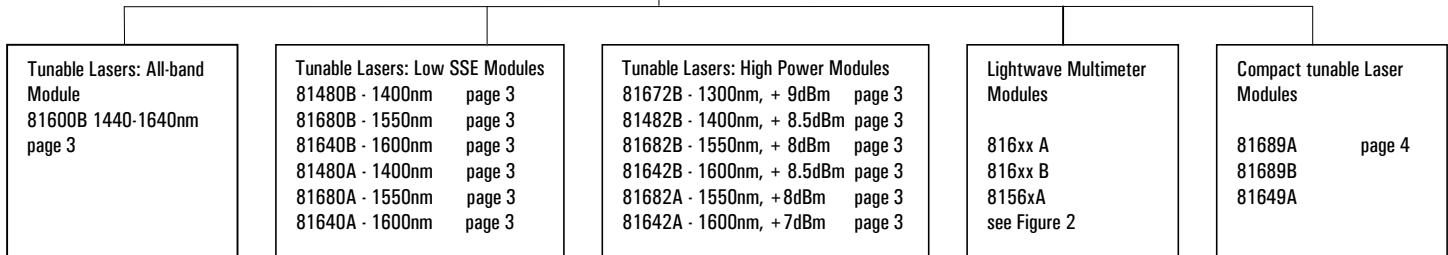
8164A/B Lightwave Measurement System



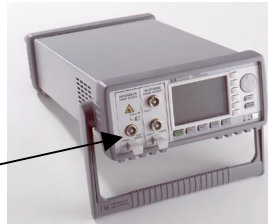
Any 816x and 8156x compact modules, also 8153A modules

Agilent high performance tunable laser module- 1 per 8164A/B
Use 81645A filler module if no tunable laser is installed

Figure 1

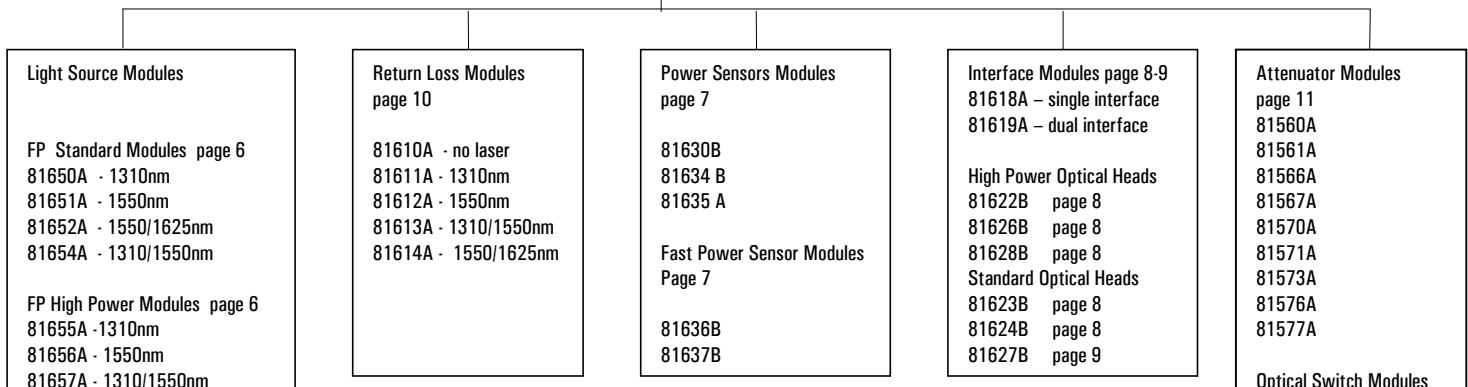


8163A/B Lightwave Multimeter



Any 816x and 8156x compact modules, also 8153A modules

Figure 2



8166 Lightwave Multichannel System



Any 816x and 8156x compact modules
(8153 modules not allowed)

Figure 3

Lightwave Multimeter Modules

816xx A
816xx B
8156xA
see Figure 2

Information about Agilent connectors and connector interfaces can be found at <http://www.agilent.com/comms/oct-accessories>

High-Performance Tunable Laser Modules



OPTIONAL

MANDATORY AND MUTUALLY EXCLUSIVE

For Laser Safety see page 13

Tunable Laser Source All-band

81600B 1440nm – 1640nm

Tunable Laser Sources Low SSE Modules

81480B · 1400nm
81680B · 1550nm
81640B · 1600nm
81480A · 1400nm
81680A · 1550nm
81640A · 1600nm

Tunable
Laser
Sources

All-band

Tunable
Laser
Sources

Low SSE

Tunable
Laser
Sources

High Power

Tunable Laser Sources High power Modules

81672B · 1300nm, + 9dBm
81482B · 1400nm, + 8.5dBm
81682B · 1550nm, + 8dBm
81642B · 1600nm, + 8.5dBm
81682A · 1550nm, + 8dBm
81642A · 1600nm, + 7dBm

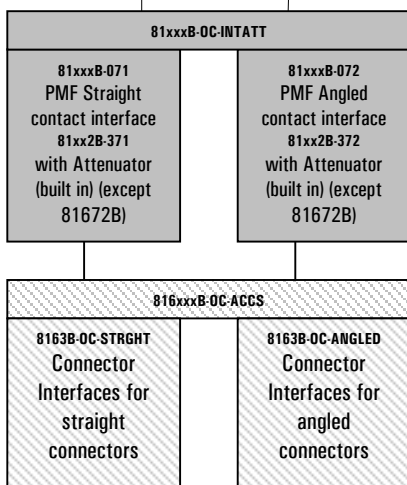
Filler Module

Specify
81645A Filler
Module if no
high
performance
tunable laser is
installed

Connector Interfaces for straight connectors

2 ea required for 81600B, 81480B, 81680B,
81640B, 81480A, 81680A, 81640A
1 ea required for 81672B, 81482B, 81682B,
81642B, 81682A, 81642A

81000AI Diamond HMS-10
81000FI FC/PC/SPC
81000GI D4
81000HI E-2000
81000KI SC/PC/SPC
81000SI DIN 47256
81000VI ST
81000WI Biconic



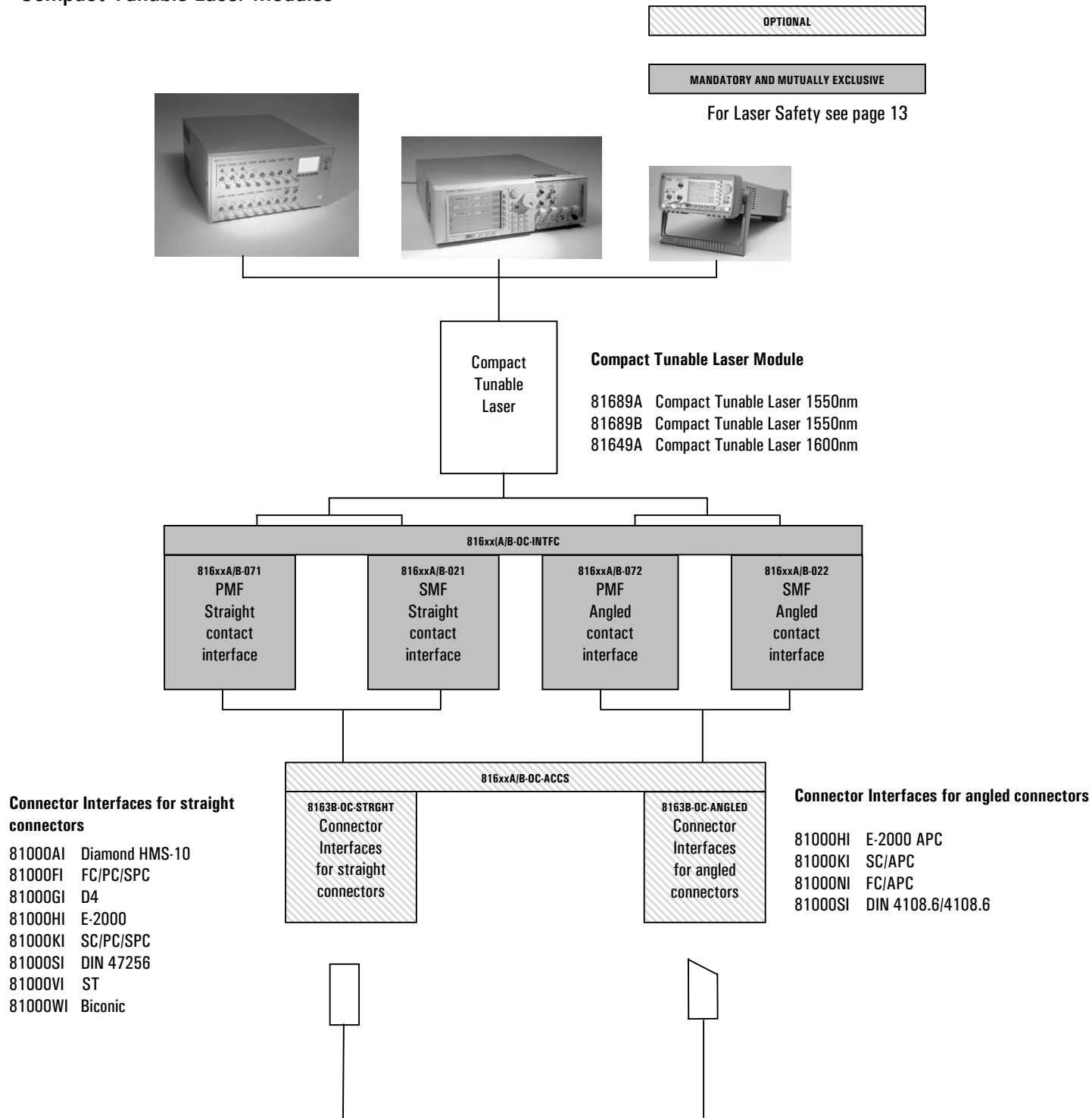
Connector Interface for angled connectors

2 ea required for 81600B, 81480B, 81680B, 81640B,
81480A, 81680A, 81640A
1 ea required for 81672B, 81482B, 81682B, 81642B,
81682A, 81642A

81000HI E-2000 APC
81000KI SC/APC
81000NI FC/APC
81000SI DIN 47256/4108.6

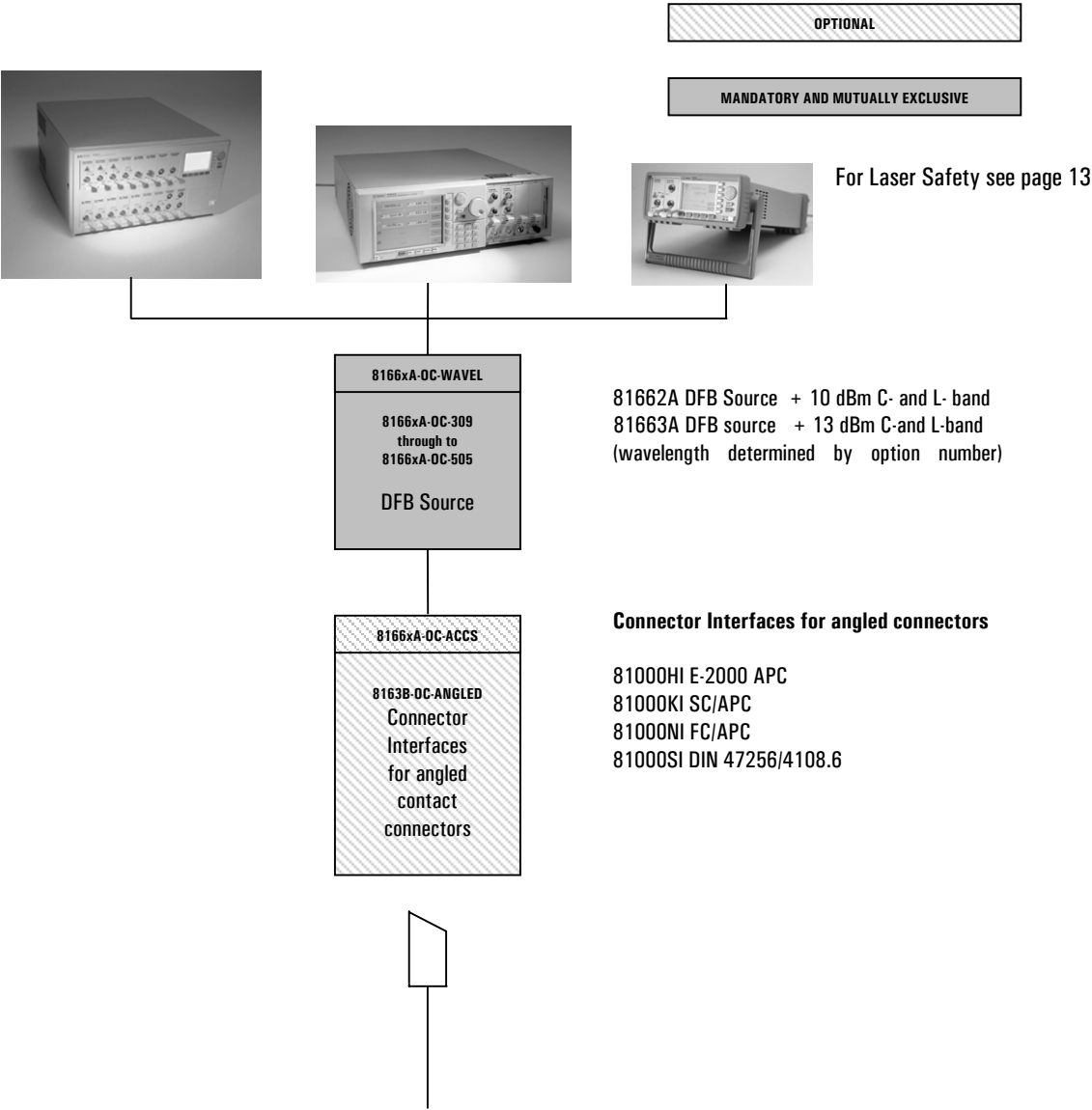
Note: 81xxxB-072 is highly recommended over 81xxxB-071 to reduce front-panel connector reflections which will greatly reduce interference noise and spectral ripple in the test setup.

Compact Tunable Laser Modules



Note: 816xxA/B-022 or 816xxA/B-072 are highly recommended over 816xxA/B-021 and 816xxA/B-071 to reduce front-panel reflections which will greatly reduce interference noise and spectral ripple in the test setup.

DFB Source Modules



Fabry-Perot Laser Modules

OPTIONAL

For Laser Safety see page 13



**FP Standard Source
Modules 0 dBm**

81650A 1310nm
81651A 1550 nm
81652A 1550/1625 nm
81654A 1310/1550 nm

Source
Modules
0 dBm

SMF,
Straight
contact
interface

Source
Modules
13 dBm

SMF,
Straight
contact
interface

**FP High Power
Source Modules 13 dBm**

81655A 1310nm
81656A 1550 nm
81657A 1310/1550 nm

8165xA-OC-ACCS

8163B-OC-STRGHT
Connector
Interfaces
for straight
connectors

Connector Interfaces for straight connectors

- 81000AI HMS-10
- 81000FI FC/PC/SPC
- 81000GI D4
- 81000HI E-2000
- 81000KI SC/PC/SPC
- 81000SI DIN 47256
- 81000VI ST
- 81000WI Biconic

Power Sensor Modules

OPTIONAL



Power Sensors

High Performance Modules

81633A/B + 10 dBm to -90 dBm
81634A/B + 10 dBm to -110 dBm
81637B + 10 dBm to 80 dBm (Fast Power Sensor)
81630B + 28 dBm to -70 dBm

Sensor Module
Interface for
both angled
and straight
connectors

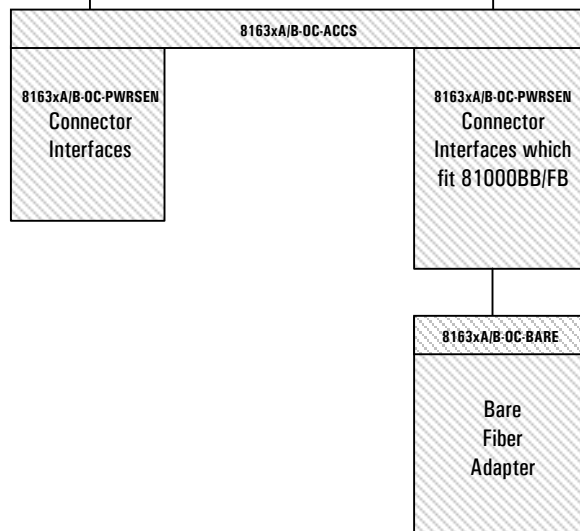
Power Sensors

Economy Modules

81632A/B + 10 dBm to -80 dBm (single channel)
81635A + 10 dBm to -110 dBm (dual channel)
81636B + 10 dBm to -80 dBm (Fast Power Sensor)

Connector Interfaces

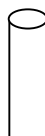
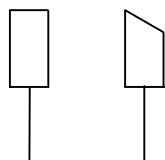
81000AI Diamond HMS-10
81000FI FC/PC/SPC
81000GI D4
81000JI SMA
81000KI SC/PC/APC
81000PI E-2000
81000SI DIN 47256 / 4108.6
81000VI ST
81002LI LC



81000AI Diamond HMS-10
81000FI FC/PC/SPC
81000KI SC
81000SI DIN 47256/4108.6
81000VI ST
81000PI E-2000

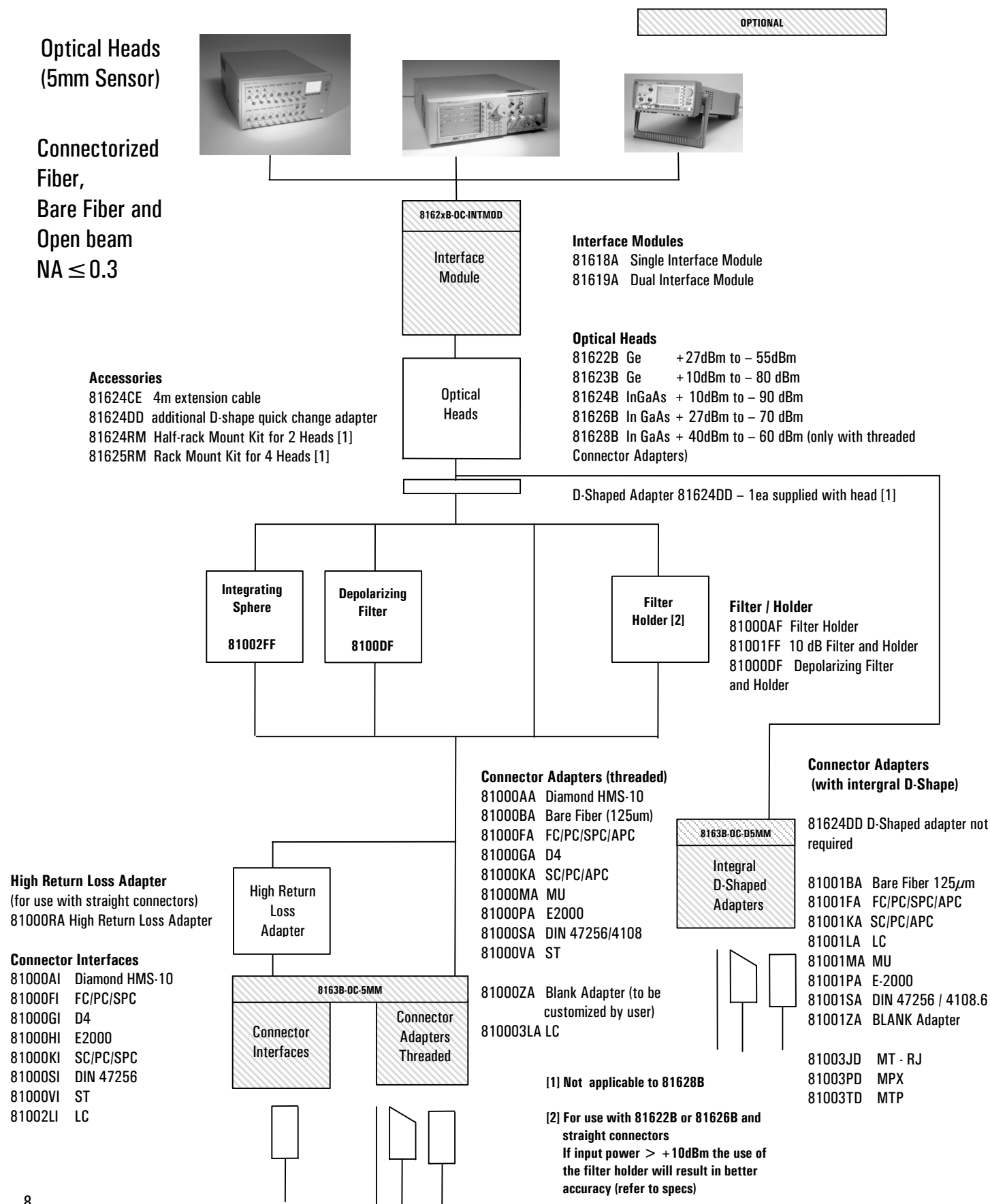
Following single
Combination is available

81000BB Bare Fiber Kit
81000FI FC
81000FB Bare Fiber Adapter



(bare fiber)

Note: All sensor inputs are non-contact and accept both straight and angled connectors.



Optical Heads (3mm Sensor)

OPTIONAL

Configuration
for
connectorized
fibers and bare
fiber



81622B-OC-INTMOD
Interface
Module

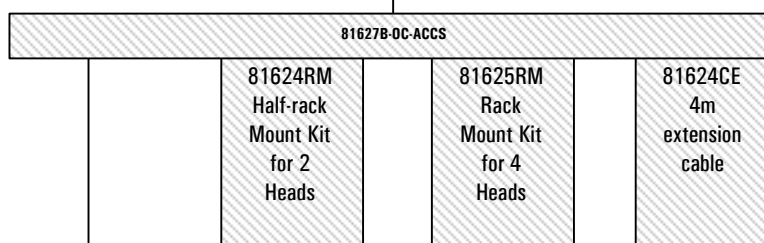
Interface Modules

81618A
81619A

Optical
Head

Optical Heads

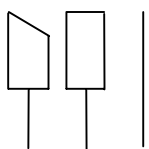
81627B



8163B-OC-D3MM
Connector
Adapters
with
integral
D-Adapter

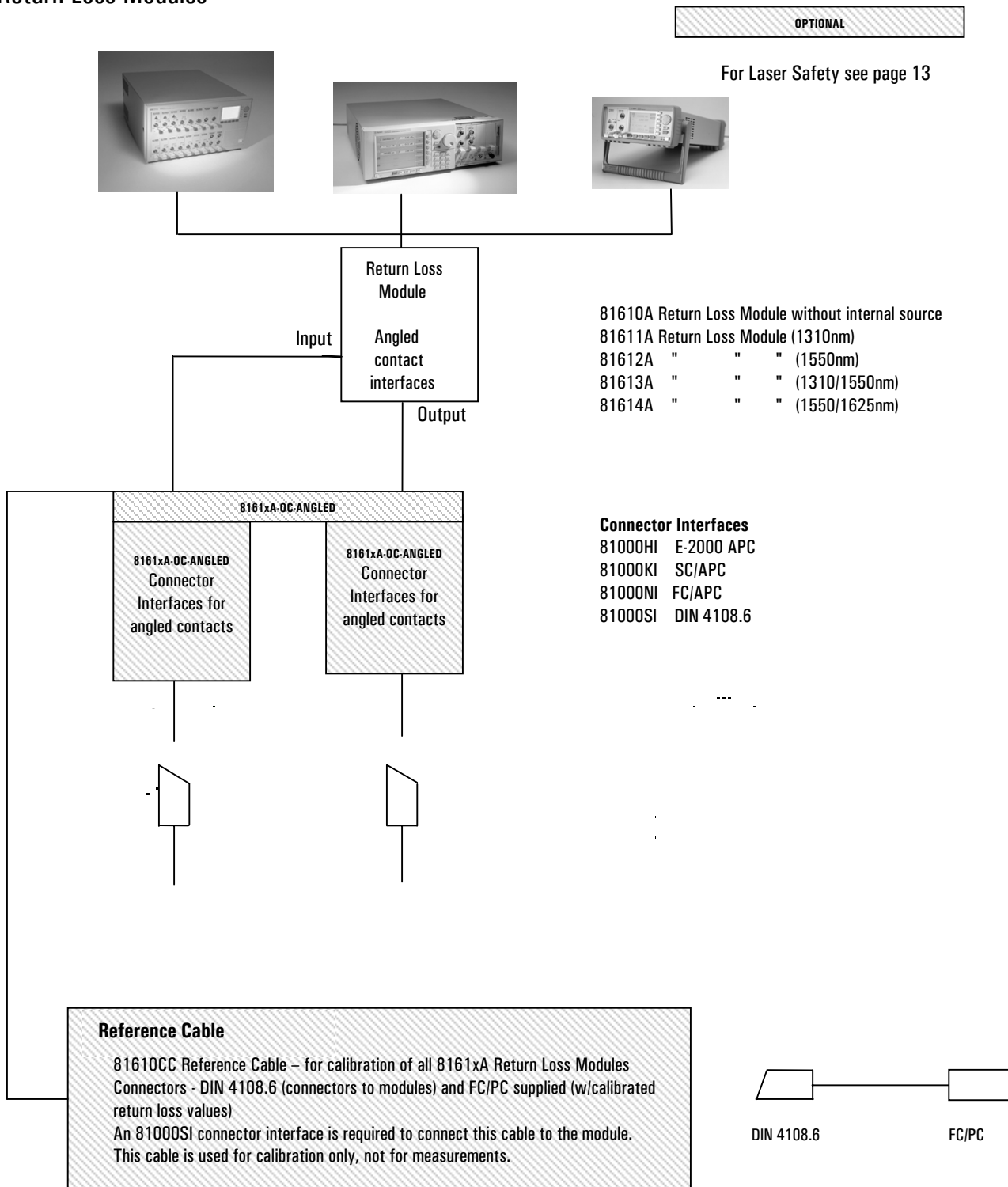
Connector Adapters (with integral D-Shape)

81001BA Bare Fiber 125 μ m
81001FA FC/PC/SPC/APC
81001KA SC/PC/APC
81001LA LC
81001MA MU
81001PA E-2000, APC
81001SA DIN 47256 / 4108.6
81001ZA BLANK Adapter



NA $\leq$ 0.11 (Single mode fiber)
NA $\leq$ 0.22 (Multi mode fiber)

Return Loss Modules



Optical Attenuator Modules

OPTIONAL



Optical Attenuators for Straight Contact Interface

81560A (single slot)
Optical Attenuator
81570A (single slot)
Optical Attenuator for high power
81566A (dual slot)
Optical Attenuator with Power Control
81576A (dual slot)
Optical Attenuator with Power Control for high power

Optical Attenuator
Straight
Contact
Interface

Optical
Attenuator
with SMF pigtail
2m length

FC/PC

Optical Attenuator
Angled
Contact
Interface

Optical Attenuator with SMF pigtail

81573A (single slot)
Optical Attenuator for high power

Optical Attenuators for Angled Contact Interface

81561A (single slot)
Optical Attenuator
81571A (single slot)
Optical Attenuator for high power
81567A (dual slot)
Optical Attenuator with Power Control
81577A (dual slot)
Optical Attenuator with Power Control for high power

Connector Interfaces

81000 AI	HMS-10
81000 FI	FC/PC/SPC
81000 GI	D4
81000 HI	E-2000
81000 KI	SC/PC/SPC
81000 SI	DIN 47256
81000 VI	ST

815xxA-OC-ACCS

8163B-OC-STRGHT
Connector
Interface for
straight
connectors

8163B-OC-ANGLED
Connector
Interface for
angled
connectors

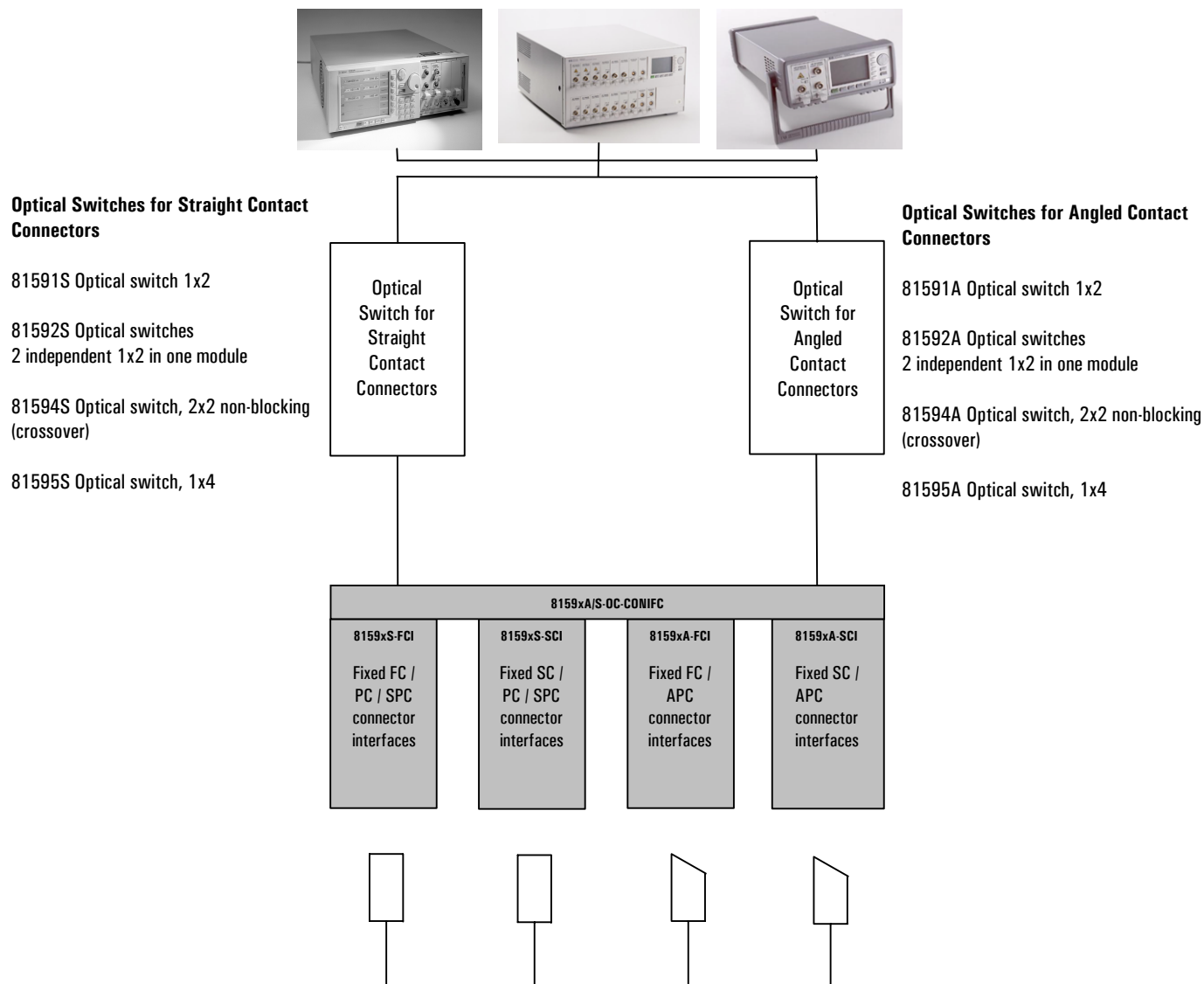
Connector Interfaces

81000 HI	E-2000 APC
81000 KI	SC/APC
81000 NI	FC/APC
81000 SI	DIN 4108.6



Optical Switch Modules

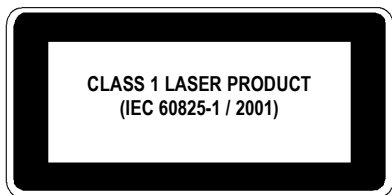
MANDATORY AND MUTUALLY EXCLUSIVE



Laser Safety Information

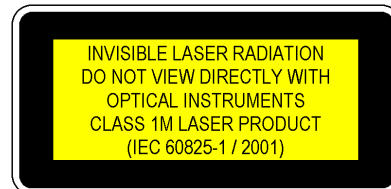
81611A 1310nm RL
81612A 1550nm RL
81613A 1310/1550nm FP
81614A 1550/1625nm RL
81650A 1310 nm FP
81651A 1550 nm FP
81652A 1550/1625 nm FP
81654A 1310/1550 nm

The laser sources listed directly above are classified as Class 1 according to IEC 60825-1 (2001).
All laser sources comply with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated 2001-July-26.



81655A 1310nm FP
81656A 1550 nm FP
81657A 1310/1550 nm FP
81662A C- and L-Band DFB
81663A C-band DFB
81600B All-band TLS
81480B 1400nm TLS
81680B 1550nm TLS
81640B 1600nm TLS
81672B 1300nm TLS
81482B 1400nm TLS
81682B 1550nm TLS
81642B 1600nm TLS
81480A 1400nm TLS
81640A 1600nm TLS
81642A 1600nm TLS
81680A 1550nm TLS
81682A 1550nm TLS
81689A 1550nm TLS
81689B 1550nm TLS
81649A 1595nm TLS

All laser sources specified by this data sheet are classified as Class 1M according to IEC 60825-1 (2001).
All laser sources comply with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated 2001-July-26



Further Information about Agilent connectors and connector interfaces can be found at <http://www.agilent.com/comms/oct-accessories>

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(fax) (31 20) 547 2390

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(fax) (852) 2506 9284

Product specifications and descriptions in this document subject to change without notice.

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5988-1571EN

Related Literature:

Agilent 8163B Lightwave Multimeter
Agilent 8164B Lightwave Measurement System
Agilent 8166B Lightwave Multichannel System
Technical Specifications
p/n 5988-3924EN

Agilent 8163A Lightwave Multimeter
Agilent 8164A Lightwave Measurement System
Agilent 8166B Lightwave Multichannel System
Technical Specifications
p/n 5988-1568EN

Agilent 81480/680/640B
Agilent 81672/482/682/642B
Tunable Laser Sources
Technical Specifications
p/n 5988-5508EN

Agilent 81480/680/640A Tunable Lasers
Agilent 81682/642A Tunable Lasers
Technical Specifications
p/n 5988-4027EN

Agilent 81689A/81689B/81649A
Compact Tunable Laser Modules
Technical Specifications
p/n 5988-3675EN

Agilent 81662A DFB Laser
Agilent 81663A DFB Laser
Agilent Fabry-Perot Laser
Technical Specifications
p/n 5988-1570EN

Agilent Power Sensor Modules
Agilent Optical Heads
Agilent Return Loss Modules
Technical Specifications
p/n 5988-1569EN

Agilent 81560A/81561A Optical Attenuators
Agilent 81566A/81567A Optical Attenuators with Power Control
Technical Specifications
p/n 5988-2696EN



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