Data Sheet

VIAVI
Passive Component Modules

For in service fiber monitoring, with ONMSi, OTU-8000, and OTU-5000

Passive components enable testing fibers that are bearing traffic with an OTDR by inserting an out-of-band wavelength (1625 or 1650 nm).

The OTDR signal is added to the data signal by using a wavelength division multiplexer (WDM). At the other fiber extremity, an optional filter blocks the OTDR signal in case the transmission equipment does not provide a good isolation. When an OTDR measurement range can cover more than one fiber span, a bypass can extend the OTDR signal to the adjacent span to extend the monitoring distance and avoid having to add an additional Optical Test Unit (OTU8000 or OTU5000)

With low insertion loss, a flat passband, exceptional reliability and environmental stability, the modules are well suited for in-service fiber test applications. They install in minutes without tools. They are available in various form factors.
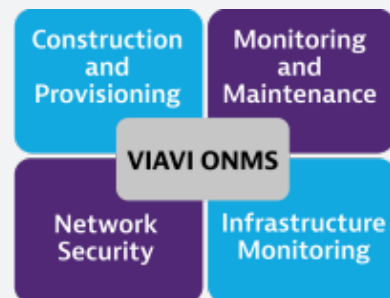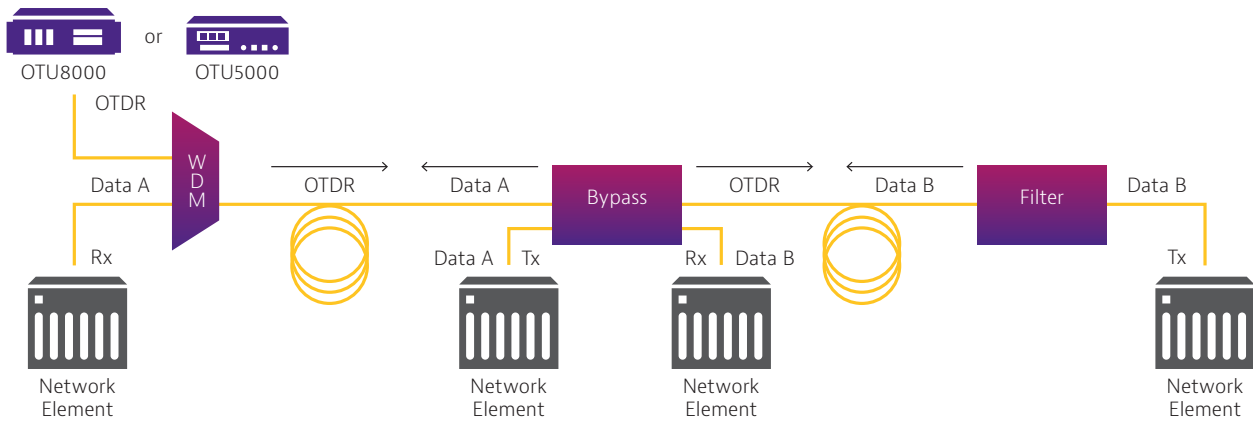
Features

- Enables in-service monitoring
- Low insertion loss
- Wide and flat passband
- Exceptional reliability and environmental stability
- Compatible with data traffic in band C and L
- Install in minutes
- Available in various form factors

Applications

- Remote fiber test systems
- Fiber tapping detection

Passive Components Specifications

Data Wavelength Range: 1260 – 1580 nm

Parameter	WDM	Bypass		Filter
Insertion loss[1]	1.1 dB	Side A: 1.5 dB		1.1 dB @1290 – 1570 nm
		Side B: 1.1 dB		2.1 dB @1580 nm
Isolation[2]	15 dB	Side A: 50 dB @1625nm		35 dB @1625 nm
		Side B: 15 dB		
Housing	LGX: 2WDM, 2 Filters, 1 Bypass per LGX Connectors: SCAPC			
	Filters are also available integrated in a 3m patch cord			

Data Wavelength Range: 1260 – 1620 nm

Parameter	WDM	Bypass		Filter
Insertion loss[1]	1.1 dB	Side A: 1.5 dB		1.1 dB
		Side B: 1.1 dB		
Isolation[2]	15 dB	Side A: 55 dB @1650 nm		40 dB @1650 nm
		Side B: 15 dB		
Housing	LGX: 2WDM, 2 Filters, 1 Bypass per LGX Connectors: SCAPC			
	Rack 1U of 32 WDM with LCAPC or LCUPC connectors			
	Filters are also available integrated in a 3m patch cord			

Data Wavelength Range: 1260 – 1617 nm

Parameter	WDM	Bypass	Filter
Insertion loss[1]	1.1 dB	Not Available	1.1 dB
Isolation[2]	15 dB		40 dB @1625 nm
Housing	OTU5000 Module: 2 WDM, 2 Filters per module, Connectors: LCAPC		

1. Insertion loss with connectors (maximum value, Com to Data).

2. Isolation (minimum value, Com to Data).

Examples of Housing Options

OTU-5000 1RU shelf

OTU-5000 1RU shelf: It can house 3 LGX boxes or OTU-5000 modules with optional front panel protection. Available for a 19″, 21″, or 23″ rack.

LGX mounting plate

LGX mounting plate can house 3 LGX boxes. Available for a 19″, 21″, or 23″ rack.

Ordering Information

Description	Part Number
Data: 1260 – 1580 nm / OTDR : 1605 – 1670 nmw	
LGX BOX WITH TWO 1625NM WDM (SC/APC)	E98LGX2W162SA
LGX BOX WITH ONE 1625NM BYPASS (SC/APC)	E98LGX1BP162SA
LGX BOX WITH TWO 1625NM FILTERS (SC/APC)	E98LGX2F162SA
FILTER INTEGRATED IN A 3M PATCH CORD (FC/APC)	E9PCFFCAPC
FILTER INTEGRATED IN A 3M PATCH CORD (FC/UPC)	E9PCFFCUPC
FILTER INTEGRATED IN A 3M PATCH CORD (SC/APC)	E9PCFSCAPC
FILTER INTEGRATED IN A 3M PATCH CORD (SC/UPC)	E9PCFSCUPC
Housing	
3 SLOTS SHELF	E9E-SHELF
19" bracket for 3 Slots Shelf	E9E-KIT19
21" bracket for 3 Slots Shelf	E9E-KIT21
23" bracket for 3 Slots Shelf	E9E-KIT23
OTU5000 ADAPTOR KIT FOR LGX MODULE.	E9E-5K-LGX-KIT
Front Panel accessories including Plexi and fiber tray	E9E-FP-ACC
RACK MOUNTING KIT FOR LGX BOX (19 INCHES)	E98-LGX-KIT-19
RACK MOUNTING KIT FOR LGX BOX (21 INCHES)	E98-LGX-KIT-21
RACK MOUNTING KIT FOR LGX BOX (23 INCHES)	E98-LGX-KIT-23
Data: 1260 – 1620 nm / OTDR : 1640 – 1670 nm	
LGX BOX WITH TWO 1650NM WDM (SC/APC)	E98LGX2W162SA
LGX BOX WITH ONE 1650NM BYPASS (SC/APC)	E98LGX1BP162SA
LGX BOX WITH TWO 1650NM FILTERS (SC/APC)	E98LGX2F162SA
1650NM FILTER INTEGRATED IN A 3M PATCH CORD (SC/APC)	E9PCFSCAPC1650
1650NM FILTER INTEGRATED IN A 3M PATCH CORD (LC/UPC)	E9PCFLCUPC1650
1650NM FILTER INTEGRATED IN A 3M PATCH CORD (SC/UPC)	E9PCFSCAPC1650
RACK (1U) OF 32 WDM (1650NM) WITH LC/APC CONNECTORS	E98RKWDM1650
RACK (1U) OF 32 WDM (1650NM) WITH LC/UPC CONNECTORS	E98RKWDM1650LCUPC
RACK 2U OF 108 WDM 1650NM LCAPC	E98RK108WDM1650
Data: 1290 – 1617 nm / OTDR : 1622 – 1670 nm	
TWO WDM IN OTU5000 SLOT FORM FACTOR (LCAPC)	E9E-5K-2W-CL-LA
TWO FILTERS IN OTU5000 SLOT FORM FACTOR (LCAPC)	E9E-5K-2F-CL-LA

For more information and specifications on VIAVI Fiber Monitoring Solutions, please contact your sales representative or go to VIAVI Fiber Monitoring.

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