VIAVI

SmartClass™ OMK-55

Optical Test Kit

With more than 100,000 Viavi Solutions optical handhelds already in use, Viavi offers the SmartClass—the next generation of optical handhelds to help networks graduate to the highest level of performance. Viavi SmartClass optical handhelds encompass a new, intelligent, and next-level product line for testing all optical signals and systems, including broadband, PONs, and Gigabit Ethernet.

All Viavi SmartClass optical handhelds provide (for detailed information, please refer to the Viavi Optical Handheld Testers brochure):

- An extended number of calibration wavelengths for the highest performance range in the industry.

- A larger storage capability for up to 1000 results with automatic date/time stamp.

- An illuminated graphical display, which shows up to 3 measurements simultaneously.

- A USB port for remote operation as well as easy Microsoft Exceltm-based report generation and analysis.

- A unique power supply management system on the market with 4 different ways of powering the unit.

- Quick-start operation that requires no warm-up, thus reducing testing time.

- A robust, shock- and splash-proof design for field operation.

The SmartClass OMK-55 Optical Test Kit contains all of the tools, including instruments and accessories, specifically designed to perform professional-grade power or loss tests in the field. Each SmartClass OMK-55 kit includes a SmartClass OLP-55 Optical Power Meter, a high-performance optical power meter for testing, installing, and maintaining single-mode and multimode cables and networks. The SmartClass OLP-55 features auto-zeroing for auto dark current compensation to increase measurement accuracy.

Key Features

- Provides easy onsite access to all necessary tools.

- The hard or soft carrying case allows for easy organization, protection, and transporting of your instruments and accessories.

- Universal test kits that can be mixed and matched to suit testing application needs, thus meeting all testing challenges.
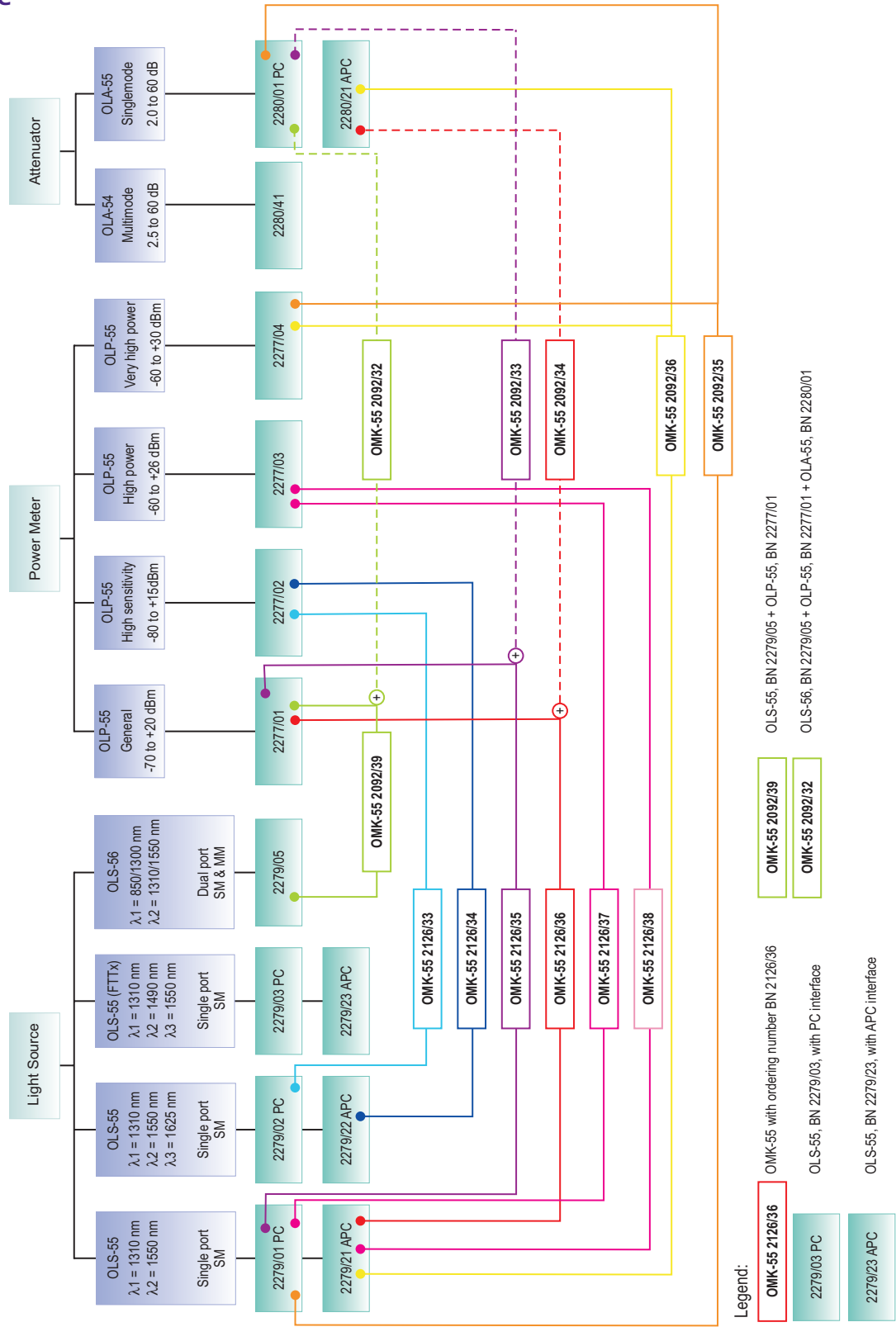
Data Sheet

Each kit also includes a SmartClass OLS-55 Optical Laser Source. Different versions of the SmartClass OLS-55 offer flexibility for testing, installing, and maintaining multimode as well as single-mode fiber systems in communications and Category 5 (CATV)/multimedia networks.

The SmartClass OMK-55 may also include an optional SmartClass OLA-55 Optical Level Attenuator. Due to low differential group delay (DGD), the OLA-55 is suitable for up to 40 Gbps systems.

Figure 1. The hard case provides room for three instruments

Selection Guide

Attenuator

OLA-55 Singlemode 2.0 to 60 dB	2280/01 PC
OLA-54 Multimode 2.5 to 60 dB	2280/41

2280/21 APC

Power Meter

OLP-55 Very high power -60 to +30 dBm	2277/04
OLP-55 High power -60 to +26 dBm	2277/03
OLP-55 High sensitivity -80 to +15dBm	2277/02
OLP-55 General -70 to +20 dBm	2277/01

OMK-55 2092/32

OMK-55 2092/33

OMK-55 2092/34

OMK-55 2092/36

OMK-55 2092/35

OMK-55 2092/39

Light Source

OLS-56 λ1 = 850/1300 nm λ2 = 1310/1550 nm Dual port SM & MM	2279/05	
OLS-55 (FTTx) λ1 = 1310 nm λ2 = 1490 nm λ3 = 1550 nm Single port SM	2279/03 PC	2279/23 APC
OLS-55 λ1 = 1310 nm λ2 = 1550 nm λ3 = 1625 nm Single port SM	2279/02 PC	2279/22 APC
OLS-55 λ1 = 1310 nm λ2 = 1550 nm Single port SM	2279/01 PC	2279/21 APC

OMK-55 2126/33

OMK-55 2126/34

OMK-55 2126/35

OMK-55 2126/36

OMK-55 2126/37

OMK-55 2126/38

OLS-55, BN 2279/05 + OLP-55, BN 2277/01

OLS-56, BN 2279/05 + OLP-55, BN 2277/01 + OLA-55, BN 2280/01

OMK-55 2092/39

OMK-55 2092/32

Legend:

OMK-55 2126/36	OMK-55 with ordering number BN 2126/36
2279/03 PC	OLS-55, BN 2279/03, with PC interface
2279/23 APC	OLS-55, BN 2279/23, with APC interface

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Ordering Information

SmartClass OMK-55 Optical Test Kit

Description	Part Number	Replaces
1310/1550/1625 nm kit (2277/02 + 2279/02)	BN 2126/33	OMK-9
1310/1550/1625 nm kit, APC (2277/02 + 2279/22)	BN 2126/34	OMK-9 (APC)
1310/1550 nm kit (2277/01 + 2279/01)	BN 2126/35	OMK-14c
1310/1550 nm kit, APC (2277/01 + 2279/21)	BN 2126/36	OMK-14c (APC)
1310/1550 nm kit, + OLA (2277/01 + 2280/01 + 2279/01)	BN 2092/33	OMK-15c
1310/1550 nm kit,+ OLA, APC (2277/01 + 2280/21 + 2279/21)	BN 2092/34	OMK-15c (APC)
1310/1550 nm kit, high-power (2277/03 + 2279/01)	BN 2126/37	OMK-18c
1310/1550 nm kit, high-power, APC (2277/03 + 2279/21)	BN 2126/38	OMK-18c (APC)
1310/1550 nm kit, highest-power, + OLA (2277/04 + 2280/01 + 2279/01)	BN 2092/35	OMK-19c
1310/1550 nm kit, highest-power, + OLA, APC (2277/04 + 2280/21 + 2279/21)	BN 2092/36	OMK-19c (APC)
850/1300 nm multimode 1310/1550 nm single-mode kit, + OLA (2277/01 + 2280/01 + 2279/05)	BN 2092/32	New
8650/1300 nm multimode 1310/1550 nm single-mode kit	BN 2092/39	New

BN 2126 = soft case version

BN 2092 = hard case version

(2277/01 ≥ 2279/05)

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