

VIAVI

Specifications for SmartPocket V2™



Light Sources

	OLS-34V2	OLS-35V2	OLS-36V2		OLS-38V2
Type	Class 1 Laser Product (IEC 60825-1:2007)				
Wavelengths	850, 1300 nm	1310, 1550 nm	850, 1300 nm	1310, 1550 nm	1310, 1550, 1625 nm
Wavelength Accuracy	- 23 / + 40 nm	±23 nm	-20 / + 40 nm	±20 nm	±20 nm
FWHM Spectral Width	< 170 nm	< 5 nm	< 170 nm	< 5 nm	< 5 nm
Output Level (CW)	Typ. - 20 dBm	Typ. -3 dBm	Typ. -20 dBm	Typ. -3 dBm	Typ. - 6 dBm
Short Term Stability	±0.02 dB within 15 min	±0.02 dB within 15 min	±0.02 dB within 15 min		±0.02 dB within 15 min
Long Term Stability ¹	±0.05 dB within 8 hrs.	±0.05 dB within 8 hrs.	±0.05 dB within 8 hrs.		±0.05 dB within 8 hrs.
Optical Connectors	1x SC/PC	1x SC/PC	2x SC/PC		1x SC/PC

¹requires a warm-up time of 20 minutes and applies to a constant temperature

Power Meters and selective PON Power Meter

	OLP-35V2	OLP-35SC	OLP-38V2	OLP-37XV2
Photo Diode	InGaAs	InGaAs	InGaAs (coated)	InGaAs
Spectral Range	Broadband (800...1650 nm)			Passband (1260...1500 nm, 1540...1650 nm)
Wavelength Setting	800...1650 nm, step size 1 nm			1490 nm, 1577 nm, Dual Broadband: 1270...1650 nm, step size 1 nm ³
Resolution	0.01 dB, 0.001 µW			
Measurement Range for Power Level	-65...+10 dBm		-50...+26 dBm	-45...+13 dBm
Max. Power Level (before damage)	+16 dBm		+27 dBm	+15 dBm
Measurement Uncertainty	Expert Mode: ±0.2 dB / ±5 % (intrinsic) ¹ OptiChek Mode: ±0.8 dB / ±5 % (intrinsic) ¹			1490 nm: ±0.5 dB / ±12 % ² 1577 nm: ±0.5 dB / ±12 % ² Broadband: ±0.5 dB / ±5 % ^{2,3}
	850, 980 nm: ±0.35 dB 1300, 1310, 1550 nm: ±0.25 dB 1490, 1625 nm: ±0.35 dB 1650 nm: ±0.45 dB		850, 980 nm: ±0.60 dB 1300, 1310, 1550, 1625 nm: ±0.55 dB 1490 nm: ±0.65 dB	
Linearity	±0.06 dB ⁴			
Number of Calibrated Wavelengths	8 (850, 980, 1310, 1490, 1550, 1577, 1625, 1650 nm)			2 (1490, 1577 nm)
Tone Detection	CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz, ^{5, 6}			
Auto functions	Auto-λ / Multi-λ ⁶			
Optical Connectors	1x UPP 2.5 mm	1x SC/PC	1x UPP 2.5 mm	1x SC/APC

¹under reference conditions: -11 dBm (CW), 1310 nm ±1 nm, 23 °C ±3 K, 45 to 75 % relative humidity, SM test fiber (Single Mode, 9 µm core, 8° APC), when used with SC/PC connectors – for OLP-38V2: Expert Mode: ±0.5 dB

²under reference conditions: -2 dBm (CW), nominal wavelength, 23 °C ±3 K, 45 to 75 % relative humidity, SM test fiber (Single Mode, 9µm core, 8° APC), when used with SC/APC connectors

³in Broadband Mode (activated SW option required)

⁴under the following conditions: -50...+ 5 dBm, 0...+45 °C – for OLP-35V2: when used at 850 nm the following applies: ±0.15 dB – for OLP-37XV2: in Broadband Mode (activated SW option required)

⁵for OLP-35V2/-38V2: received optical power level ≥ -50 dBm – for OLP-35SC: optical power level ≥ -35 dBm – for OLP-37XV2: in Broadband Mode (activated SW option required)

⁶when used with VIAVI Light Source and received optical power level > -50 dBm – for OLP-37XV2: in Broadband Mode (activated SW option required)