

## Lightwave Selection Chart

<b>Lightwave Multimeter</b>	<b>HP 8153A</b>		
<b>Power Sensor Modules</b> Wavelength Range Power Range Accuracy (at ref. cond.)	450 to 1700 nm +10 to -110 dBm ±2.2%		
<b>Laser Source Modules</b> Wavelengths Stability (6 h)	1300, 1550, 1300/1550 nm ±0.03 dB		
<b>LED Source Modules</b> Wavelengths Stability (6 h)	850, 1300 nm ±0.03 dB		
<b>Return Loss Module</b> Wavelength Range Return Loss Range	1250 to 1600 nm 0 to 70 dB		
<b>Sources</b>	<b>HP 8154B</b>	<b>HP 8155A</b>	
Wavelengths Output Power Stability (12 h)	850, 1300, 1550 nm -17 to -23 dBm ±0.02 dB	1300, 1550 nm > -4 dBm ±0.03 dB	
<b>Optical Attenuators</b>	<b>HP 8158B</b>	<b>HP 8157A</b>	
Wavelength Range Linearity (single-mode) Return Loss	600 to 1650 nm ±0.4 dB 14 dB	1200 to 1650 nm ±0.2 dB 45 dB	
<b>Optical Isolators</b>	<b>HP 81210LI</b>	<b>HP 81310LI</b>	
Wavelength Range Peak Isolation	1290 to 1330 nm 60 dB	1530 to 1570 nm 60 dB	
<b>Lightwave Converters</b> Wavelength Range Bandwidth (optical) Conversion Gain	<b>HP 11982A</b> 1200 to 1600 nm dc to 15 GHz 300 V/W nominal	<b>HP 83440B/C/D</b> 1200 to 1600 nm dc to 6/20/34 GHz 35/35/25 V/W nominal	
<b>Lightwave Signal Analyzers</b>	<b>HP 71400C</b>	<b>HP 71401C</b>	<b>HP 83810A</b>
Wavelength Range Modulation Bandwidth Sensitivity (optical)	750 to 870, 1200 to 1600 nm 100 kHz to 22 GHz -62/-66 dBm	750 to 870, 1200 to 1600 nm 100 kHz to 2.9 GHz -62/-66 dBm	1200 to 1600 nm 9 kHz to 22 GHz -4 dBm
<b>Lightwave Component Analyzers</b>	<b>HP 8702B</b>	<b>HP 8703A</b>	<b>HP 83420A</b>
Wavelengths Modulation Bandwidth	850, 1300, 1550 nm 300 kHz to 6 GHz	1300, 1550 nm 130 MHz to 20 GHz	1300, 1550 nm 130 MHz to 20 GHz
<b>Lightwave Precision Reflectometer</b>	<b>HP 8504A</b>		
Wavelengths Return Loss Range Measurement Span Two-Event Resolution	1300, 1550 nm 0 to 70 dB 1 mm to 40 cm (air) 50 μm (air)		
<b>Lightwave Polarization Analyzer</b>	<b>HP 8509A</b>		
Wavelength Range	1200 to 1600 nm		
<b>Optical Time Domain Reflectometer</b>	<b>HP 8146A</b>		
Wavelengths Dynamic Range Attenuation Deadzone	1310, 1550, 1310/1550 nm up to 30 dB 30 m		
<b>Hand-Held Optical Loss Test Set</b>	<b>HP 8140A</b>		
<b>Power Sensor Modules</b> Wavelength Range Power Range Accuracy (at ref. cond.)	400 to 1700 nm +10 to -70 dBm ±5%		
<b>LED Source Modules</b> Wavelengths Stability (15 min)	850, 1300, 1550 nm ±0.03 dB		