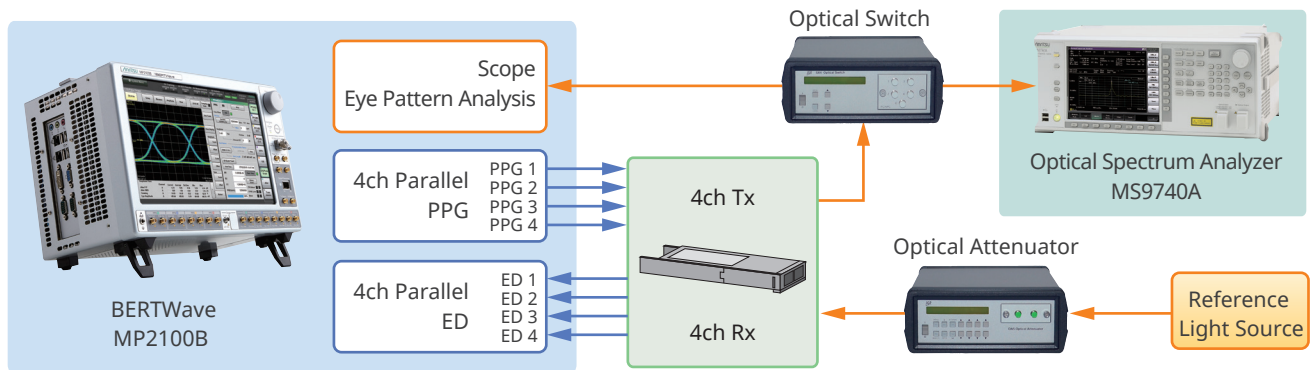


# Manufacturing and Evaluating Optical Modules and Devices

Optical Attenuators and Optical Switches

## Manufacturing Optical Modules and Devices

In addition to using a BERT, sampling oscilloscope and spectrum analyzer, manufacturing inspection of optical modules and devices requires optical attenuators and optical switches. Anritsu's product line of G0350 to G0355 series optical attenuators and G0344 to G0349 series optical switches is the total solution for evaluating optical modules and optical devices.



## Optical Attenuator Specifications

Item	Specifications	
	Single-Mode	Multi-Mode
Wavelength Range	1200 nm to 1700 nm	750 nm to 1700 nm
Attenuation Range	60 dB	
Insertion Loss*	≤1.2 dB (1550 nm) ≤1.5 dB (1310 nm)	≤1.7 dB (1310 nm) ≤2.0 dB (850 nm)
Reflection Loss	>60 dB	>35 dB (800nm to 1350 nm)
PDL	<0.1 dB	
Repeatability	±0.01 dB	
Resolution	0.01 dB	
Absolute Accuracy	±0.1 dB	
Max. Input optical Power	23 dBm (200 mW)	
Beam Block	>100 dB	
Dimensions	260 (W) x 110 (H) x 260 (D) mm	
Unit Weight	3 kg	
Operation Temperature	0° to 40°C	
Input Voltage	100 V(ac) to 240 V(ac), 50 Hz to 60 Hz	
Interface	Front Buttons/GPIB/RS232	

\*: Excluding connector



## Optical Switch Specifications

Item	Specifications	
	Single-Mode	Multi-Mode
Wavelength Range	1250 nm to 1670 nm	840 nm to 1350 nm
Insertion Loss*	0.7 dB	
Backreflection	≤-60 dB	≤-40 dB
PDL	0.05 dB	NA
Reproducibility (Random Switching)	±0.03 dB	
Reproducibility (Sequential)	±0.005 dB	
Crosstalk (max.)	-80 dB	
Max. Input Power	300 mW	
Switching Time	300 ms	
Switch Life	10 <sup>8</sup> cycles	
Dimensions	250 (W) x 120 (H) x 270 (D) mm	
Mass	3 kg	
Operation Temperature	0° to 55°C	
Input Voltage	100 V(ac) to 240 V(ac), 50 Hz to 60 Hz	
Power Consumption	60 VA (max.)	
Interface	Front buttons/GPIB/RS232	

\*: Excluding connector



## Ordering Information

The product name and listed name may be different sometimes; contact your sales representative for more details.

Model/Order No.	Name
G0350F	Programmable Optical Attenuator(SM9,FC/UPC)
G0350S	Programmable Optical Attenuator(SM9,SC/UPC)
G0351F	Programmable Optical Attenuator(SM9,FC/UPC,Power Monitor)
G0351S	Programmable Optical Attenuator(SM9,SC/UPC,Power Monitor)
G0352F	Programmable Optical Attenuator(GI50,FC/UPC)
G0352S	Programmable Optical Attenuator(GI50,SC/UPC)
G0353F	Programmable Optical Attenuator(GI50,FC/UPC,Power Monitor)
G0353S	Programmable Optical Attenuator(GI50,SC/UPC,Power Monitor)
G0354F	Programmable Optical Attenuator(GI62.5,FC/UPC)
G0354S	Programmable Optical Attenuator(GI62.5,SC/UPC)
G0355F	Programmable Optical Attenuator(GI62.5,FC/UPC,Power Monitor)
G0355S	Programmable Optical Attenuator(GI62.5,SC/UPC,Power Monitor)

Name (fiber type/core diameter, connector type)

\*: KC mark not supported

Model/Order No.	Name
G0344F	Optical Switch(1x4,SM9,FC/UPC)
G0344S	Optical Switch(1x4,SM9,SC/UPC)
G0345F	Optical Switch(1x16,SM9,FC/UPC)
G0345S	Optical Switch(1x16,SM9,SC/UPC)
G0346F	Optical Switch(1x4,GI50,FC/UPC)
G0346S	Optical Switch(1x4,GI50,SC/UPC)
G0347F	Optical Switch(1x4,GI62.5,FC/UPC)
G0347S	Optical Switch(1x4,GI62.5,SC/UPC)
G0348F	Optical Switch(2x4,GI50,FC/UPC)
G0348S	Optical Switch(2x4,GI50,SC/UPC)
G0349F	Optical Switch(2x4,GI62.5,FC/UPC)
G0349S	Optical Switch(2x4,GI62.5,SC/UPC)

Name (number of channels, fiber type/core diameter, connector type)

\*: KC mark not supported