

Advantest Q8163

Advantest Q8163 Optical Polarization Scrambler

Features:

- * Low Fluctuation of Insertion Loss
- * Variable Speed Polarized Wave Control
- * Continuously Change Polarized Waves



The Q8163 is an optical polarization scrambler which has a function to change the state of output light polarization with using a polarization element of optical fiber type. The state of output light polarization can be changed continuously by driving 3 polarization elements of optical fiber type. Therefore, all the states of polarized light (all the points on the Poincare sphere) can be output.

As a polarization element of optical fiber type is used inside, the fluctuation of insertion loss are ± 0.005 dB or less when the state of polarized light changes. Therefore it provides the efficiency in evaluating various optics of small PDL (Polarization Dependent Loss).

By driving the polarization element of optical fiber type, the state of output light polarization can be changed at high speed. It is possible to measure polarization dependability of various light components at high speed.

Wavelength	
Range of used wavelength	1.29 μ to 1.58 μ m
Level	
Insertion loss	≤ 3 dB
Fluctuation of insertion loss	$\leq \pm 0.005$ dB
Return loss	≥ 43 dB
Polarized wave control	
Variable speed	\geq Poincare sphere of 500 revolutions/second (HI-speed)
Variable speed switch	Variable speed switch 2 levels, Hi and Lo
Output/Input	
Output/Input connector	FC/SPC (Standard specification)
External control	GPIB standard equipment
General	
Manufacturer	Advantest
Model	Q8163
Condition	Used and in Excellent Condition
Product Family	Q8163