

Compact module for optical return loss measurement

ODB6 is a compact calibrated module for optical return and transmission loss measurements. Highly accurate, large dynamic range return loss measurements (up to 60 dB*) are achieved by combining optical switch, built-in reference (R=1) broadband fiber mirror, broadband optical circulator with ultra-low back-reflection FC/APC connectors. Module ODB6 is designed to operate over wide wavelength range with an external tunable or fixed wavelength light sources and optical power meter.

Key design features include:

- Built-in optical switch and broadband fiber mirror for calibrated optical return loss measurements to 60 dB
- Low insertion and polarization dependant loss.
- Ultra-low reflections FC/APC connectors
- Operates in manual or remote control mode



Specifications:

Description	Min	Typical	Max	Unit
Operating wavelength range*	1280	1300-1620	1680	nm
Maximum input power	-	20	26	dBm
Return loss range*	>45	55	65	dB
PDL	0.02	0.05	0.1	dB
Dimensions	200 × 180 × 50			mm
Polarization dependant loss	0.02	0.06	0.15	dB
Number of optical In/Outputs	3	3	4	-
Connector type	FC/APC			
Fiber type	9/125/900			µm
Operating temperature	1	25	45	°C

* ODB-06C operates at central wavelength 980 nm

Optical schematics

