GLOBALfiber DWDM 1 ch OADM CH17-CH61, 100GHz 3-port filter for splicing 900um

PRODUCT OVERVIEW

A three-port DWDM device for selecting one optical channel on the ITU grid while reflecting the remaining channels to the express path. GF-OADM1D-09-CHxx is a 100 GHz single-channel OADM covering channel options CH17 to CH61, with 900 um pigtails for direct fusion splicing.

KEY FEATURES

- Low insertion loss and wide passband
- High channel isolation, stability and reliability
- Epoxy-free optical path
- Compact tube package with 900 um pigtails
- Passive wavelength selection; no external power required

APPLICATIONS

Channel add/drop; DWDM networks; wavelength routing; fiber-optic amplifier systems; CATV fiber-optic systems.

KEY SPECIFICATIONS

Device configuration	1×2 DWDM device; 3 optical ports
Channel spacing	100 GHz
Channel options	ITU grid; CH17 to CH61
Tube package (900 um fiber)	Diameter 5.5 mm x length 38 mm
Requested 100 GHz configuration	Compact stainless-steel tube; 900 um pigtails; no LC/SC connectors; direct fusion splicing
Preferred fiber in request	Single-mode G.657.A1 or G.657.A2; not confirmed in performance table

COMMON / LINE IN PASS / ADD-DROP



RECOMMENDED OPERATING CONDITIONS

Parameter	Specification
Operating temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C
Maximum optical power handling	300 mW

OPTICAL CHARACTERISTICS

Parameter	100 GHz
Center wavelength	ITU grid
Channel passband at -0.5 dB bandwidth (nm)	>=0.22
Pass-channel insertion loss (dB)	<=0.8
Reflection-channel insertion loss (dB)	<=0.4
Pass-channel isolation (dB)	>=30
Reflect-channel isolation (dB)	>=13
Insertion-loss temperature sensitivity (dB)	<=0.3
Wavelength temperature shifting (nm/°C)	<=0.001
Polarization-dependent loss (dB)	<=0.1
Polarization-mode dispersion (ps)	<=0.1
Directivity (dB)	>=45
Return loss (dB)	>=45
Maximum power handling (mW)	300

Optical specifications apply to devices without connectors.

DIGITAL DIAGNOSTICS AND MANAGEMENT

No digital diagnostic or management interface is specified for this passive optical device.

SAFETY AND REGULATORY

No safety certification or regulatory compliance declaration is included in the supplied document.

ORDERING INFORMATION

Parameter	Specification
GLOBALfiber product number	GF-OADM1D-09-CHxx
Product description	GLOBALfiber DWDM 1 ch OADM CH17-CH61, 100GHz 3-port filter for splicing 900um
Channel selection	Replace xx with the required ITU channel, 17 to 61
Channel spacing	100 GHz
Fiber pigtails	900 um; for direct fusion splicing
Connector	None
Pigtail length	Specify when ordering

GENERAL NOTES

Optical limits are based on the 100 GHz specifications and apply without connectors. GLOBALfiber product number, description and CH17-CH61 range are supplied by GLOBALfiber. Stainless-steel construction, splice-closure suitability and G.657.A1/A2 fiber remain requested preferences rather than confirmed specifications. Confirm fiber type and pigtail length when ordering.

Subject to change without notice. For more information visit globalfiber.no.