

WDM, Filter, 100 GHz, ITU Component

DWS Series

**Key Features**

- Low insertion loss
- Exceptional reliability and environmental stability
- Low polarization dependent loss
- Flat and wide passband
- High demux channel isolation

Applications

- Access/enterprise networks
- Metro networks
- Long haul networks
- Denser channel plans
- Test bench/systems

Compliance

- Telcordia GR-1221

JDSU ITU Components are the result of years of telecommunication experience in interference filter technology. Individual components are available on ITU channel spacings of 200 and 100 GHz, as well as on bands of ITU channels.

Manufactured using laser welding technology, these devices exceed the requirements of Telcordia GR-1221. They demonstrate low loss, temperature insensitivity, and reliable performance in any system application.

Used within mux/demux and add/drop applications, JDSU ITU components provide the utmost flexibility in single ITU channel management. They offer a simple solution to wavelength routing and are optimized to supply maximum bandwidth and isolation, yet maintain low chromatic dispersion.

Established volume capability and proven experience in customizing fiberoptic components and modules make JDSU the supplier of choice.

2

Specifications

Parameter		Specification
Wavelength range		C- or L-band ITU channels 186.6 to 196.1 THz
Passband width	Minimum	± 12.5 GHz ($\approx \pm 0.10$ nm)
Transmission passband ripple	Maximum	0.4 dB
Reflection passband ripple	Maximum	0.2 dB
Transmission insertion loss ¹	Maximum	1.1 dB
Reflection insertion loss ¹	Maximum	0.4 dB
Transmission isolation (adjacent channel)	Minimum	25 dB
Transmission isolation (non-adjacent channel)	Minimum	50 dB
Reflection isolation	Minimum	12 dB
Transmission chromatic dispersion	Maximum	46.4 ps/nm
Reflection chromatic dispersion	Maximum	17.5 ps/nm
Directivity	Minimum	45 dB
Return loss	Minimum	45 dB
Polarization dependent loss	Maximum	0.2 dB
Polarization mode dispersion	Maximum	0.2 ps
Optical power handling	Maximum	1 W
Operating temperature range		-5 to 75°C
Storage temperature range		-40 to 85°C
Fiber type		9/125/250 μ m fiber, 9/125/900 μ m fiber
Fiber length		1.5 \pm 0.1 m
Package dimensions (\varnothing x L)		
9/125/250 μ m fiber		5.5 x 35.4 mm (excluding strain reliefs)
9/125/900 μ m fiber		5.5 x 42.9 mm

1. Excludes connector insertion loss

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide, or via e-mail at customer.service@jdsu.com.

Sample: DWS-1F3883P20
DWS-1F **3P**

Channel Frequency
Provided by JDSU upon customer confirmation

Code	Fiber Type
2	250 μ m fiber (No connectors only)
9	900 μ m fiber

Code	Connector Type ¹
0	No connectors
2	FC/SPC
3	FC/APC
4	SC/SPC
5	SC/APC
6	LC/UPC

1. Other connectors available upon request