

HYAS0175217A



Standard Specification
for
CWDM 8ch Demux (SC/SPC)

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1. General

This document covers the standard specification of CWDM 8ch Demux.

2. Construction

Construction is shown in Figure 1.

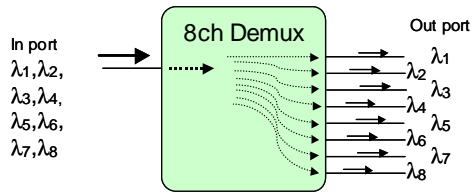


Figure 1. Construction of CWDM 8ch Demux

3. Optical Specification

| Parameter | Unit | Specification |
|------------------------------------|---------|--|
| Channel Spacing | nm | 20 |
| Central Wavelength (λ_c) | nm | 8 channel from 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 |
| Passband | nm | $\lambda_c \pm 6.5$ |
| Insertion Loss | Max. dB | 4.5 |
| Passband Flatness | Max. dB | 0.5 |
| Channel Uniformity | Max. dB | 1.2 |
| Isolation | Min. dB | 30 |
| Return Loss | Min. dB | 40 |
| Polarization Dependent Loss | Max. dB | 0.15 |
| Operating Temperature | °C | 0 to 65 |
| Storage Temperature | °C | -40 to 85 |
| Package Dimension | mm | 135x 100x 10 |

4. Other Specification

| Parameter | Specification |
|--------------|------------------------|
| Fiber | 900 μ m loose tube |
| Fiber Length | 1 \pm 0.1m |
| Connector | SC/SPC |

5. Test Reports

A test report is provided with each product including the following measured data:

- Insertion Loss
- Isolation
- Return Loss
- PDL

6 Ordering Information

SE – CW 8 ch D x 0 – S / SP – C 4 7 – L 1 0

7. Definition

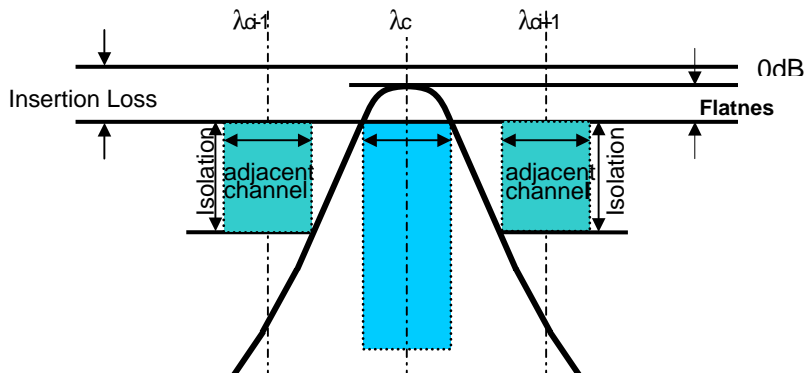


Figure2 Definition of parameters

The parameters herein take into account temperature variations over the operating temperature range.

Insertion Loss

This describes the maximum insertion loss value from the zero dB point over the entire passband $\lambda_c \pm 6.5\text{nm}$ within each central wavelength channel.

Passband Flatness

It is a measure of the difference in dB between the minimum and maximum insertion loss in each channel port over the entire passband $\lambda_c \pm 6.5\text{nm}$.

Channel Uniformity

It is a measure of the difference in dB between the minimum and the maximum insertion loss across all channels.

Isolation

It is a measure of the difference of insertion loss from the Insertion loss of the defined bandwidth over the adjacent channel band edge on either side of the central wavelength of the channel being tested. Values of both short and long sides shall be reported.

Polarization Dependent Loss (PDL)

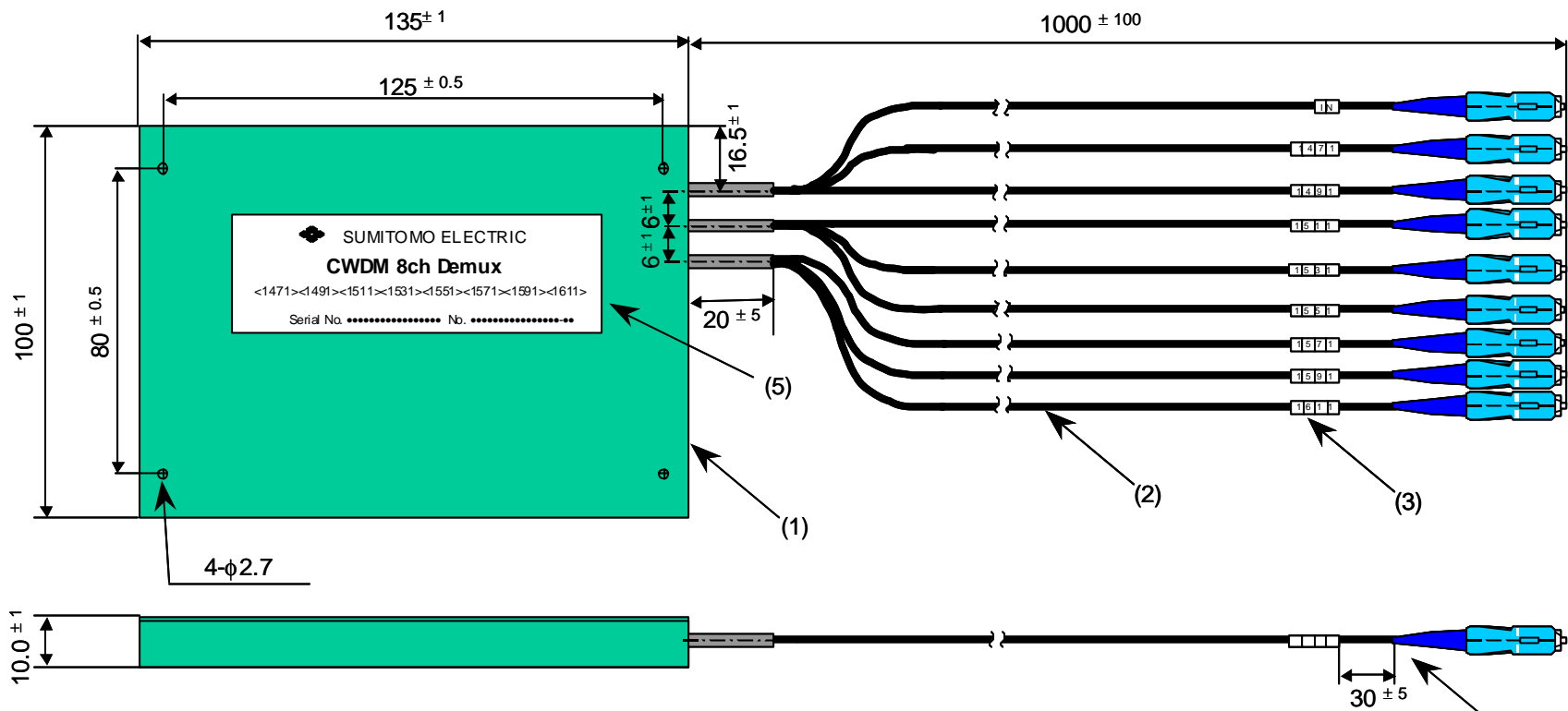
PDL is defined as the maximum difference in insertion loss over the passband $\lambda_c \pm 6.5\text{nm}$ for all states of polarization.

Return Loss

The return loss is defined as the maximum amount of optical power returning through input port when optical signals are launched into. It is measured over the passband $\lambda_c \pm 6.5\text{nm}$.



CWDM 8ch Demux (SC/SPC)



- (1) Protective Case
- (2) Optical Fiber (900 μ m loose tube)
- (3) Mark Band
- (4) Connector(SC/SPC)
- (5) Label

Unit: mm