

# Data Sheet

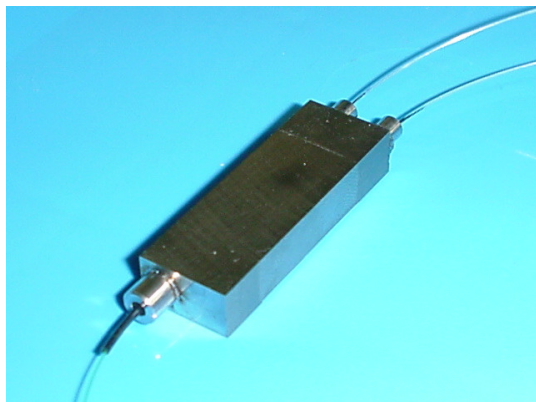
DW902

March, 2000

FT2F -00065

## Polarization Beam Combiner

Product type: DW902



### Applications

- High power laser diode multiplexing application for pumping source of EDF and Raman amplifier in WDM network.

### Description

- DW902 is three-port polarization beam combiner with optical crystal.
- Also could be used as Polarization splitter.

### Features

- Extremely low insertion loss. : 0.25dB Typical
- Flat insertion loss spectrum.
- High reliability using YAG laser welding and Epoxy-free optical path.

### Environmental conditions

| Parameter             | Unit | Min | Typ | Max | Remarks             |
|-----------------------|------|-----|-----|-----|---------------------|
| Storage Temperature   | °C   | -40 | -   | 85  | No dew condensation |
| Operating Temperature | °C   | 0   | -   | 67  | No dew condensation |

### Optical Characteristics

| Item                 | Symbol    | Conditions               | Min  | Typ  | Max  | Unit |
|----------------------|-----------|--------------------------|------|------|------|------|
| Operating Wavelength | $\lambda$ |                          | 1400 | -    | 1600 | nm   |
| Insertion Loss       | IL        | at Operating Temperature |      | 0.25 | 0.50 | dB   |
| Extinction Ratio     | ER        |                          | 17   | 25   | -    | dB   |
| Return Loss          | RL        |                          | 45   | -    | -    | dB   |

### Block diagram

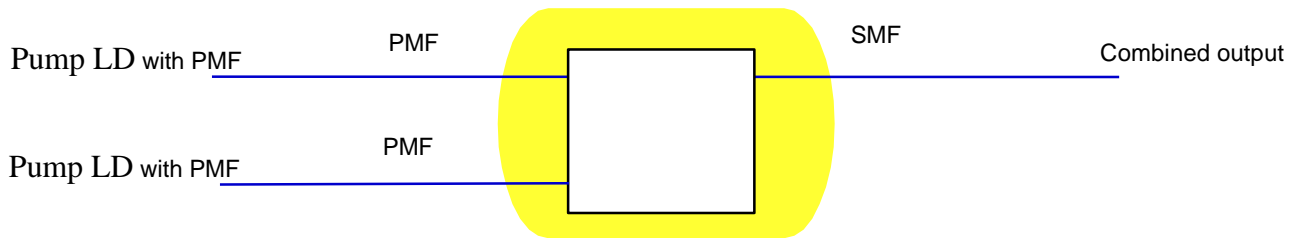


Figure. DW-902 Block Diagram

### Outline Drawings

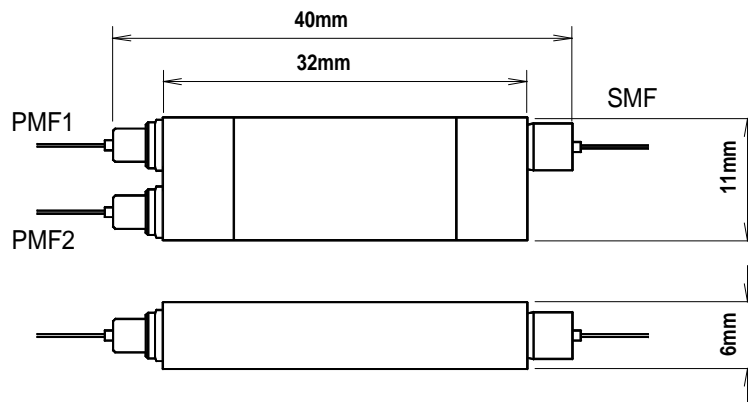


Figure. DW-902 Outline dimensions

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