

Polarization Beam Splitter/Combiner

Product type: DW902-P, DW902-V



Applications

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

Descriptions

- DW902 series is three-port polarization beam combiner with optical crystal
- Also could be used as Polarization splitter
- DW902-P is polarization beam combiner with 3 PMF ports
- DW902-V is polarization beam combiner with 1 SMF and 2 PMF ports

Features

- Extremely Low insertion loss. : 0.25dB Typical
- Flat insertion loss spectrum.
- High reliability using YAG laser welding and Epoxy-free optical path.
- Telcordia GR-1209, GR-1221 Qualified.

Environmental conditions

Parameter	Unit	Min	Typ	Max	Remarks
Storage Temperature	°C	-40	-	85	No dew condensation
Operating Temperature	°C	0	-	70	No dew condensation
Maximum Optical Power *1)	mW	-	-	1000	3W,DH 2000hr test passed

Note *1) Connector type is not available.

Specifications

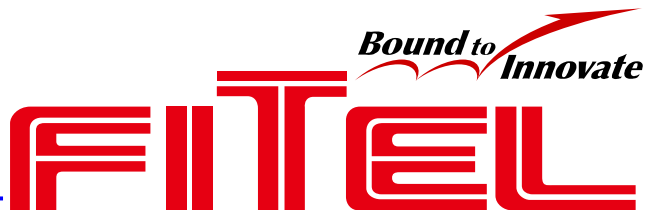
Item	Symbol	Conditions	Min	Typ	Max	Unit
Operating Wavelength	λ	Type Number: DW902- P/V 2-	1420	-	1460	nm
		Type Number: DW902- P/V 1-	1460	-	1500	nm
		Type Number: DW902- P/V 3-	1530	-	1570	nm
Insertion Loss	IL	at Operating Temperature	-	0.25	0.5	dB
Extinction Ratio ^{*)}	ER	at common port	17 or 26	-	-	dB
Return Loss	RL		45	-	-	dB

*) This item is specified for DW902-P series.

Data Sheet

DW902 series

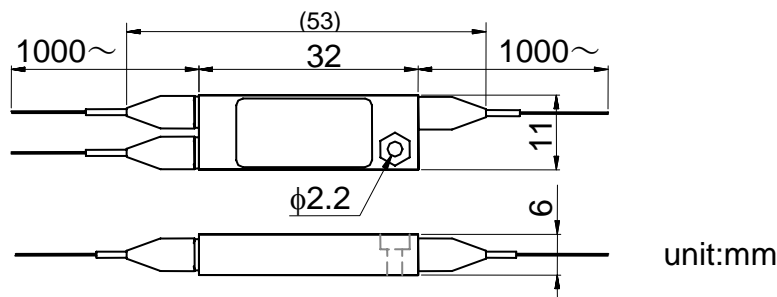
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Block diagram



Outline Drawings



[Fiber specs.]

PMF	φ0.4 mm coating PM-fiber	
SMF	φ0.25mm coating SM-fiber	ITU-T G.652

Ordering Information

DW902- [] [] - [] - [] [] / [] []

Fiber type @ Port 3		Wavelength Range [nm]		Extinction Ratio (Port 1 & 2) *1)		Connector Type *2) (Port 1&2)		Polishing Type (Port 1&2)		Connector Type *2) (Port 3)		Polishing Type (Port 3)	
Symbol		Symbol		Symbol		Symbol		Symbol		Symbol		Symbol	
P	PMF	1	1460 – 1500	17	17 dB	FC	FC	S	SPC	FC	FC	S	SPC
V	SMF	2	1420 – 1460	26	26 dB	SC	SC	A	APC	SC	SC	A	APC
		3	1530 – 1570			N	N			N	N		

Note *1) Connectorization is not Available with 26dB option

Note *2) Polarization axis : The stress producing members are parallel to the connector key.

Furukawa Electric reserves the right to improve, enhance and modify the features and specifications of FITELE products without prior notifications.



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