



## Single Mode Wavelength Division Multiplexer (1310/1550, 1480/1550) (WDM Series)

Rev 11

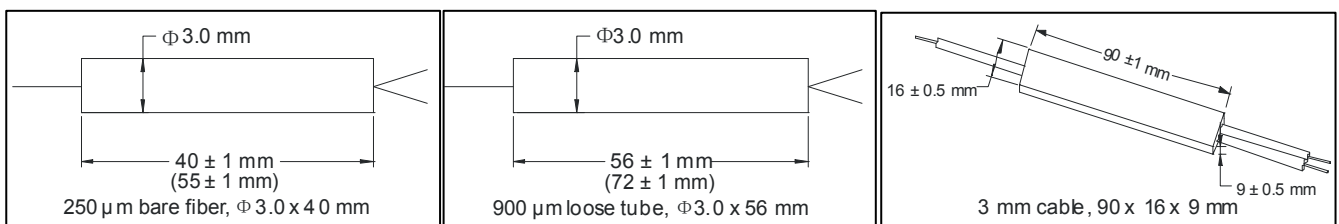
The Single Mode Wavelength Division Multiplexers combine or separate light at different wavelengths. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental stability. These components have been extensively used in EDFA, CATV, WDM networks and fiber optics instrumentation.

### Specifications

Parameter	Unit	Value	
Center Wavelength ( $\lambda_c$ )	nm	1310/1550	1480/1550
Operation Wavelength	nm	$\lambda_c \pm 15$	$\lambda_c \pm 5$
Min. Isolation	dB	17	13
Max. Insertion Loss	dB	0.20	0.35
Max. Polarization Dependent Loss	dB	0.1	0.2
Thermal Stability	dB/°C	$\leq 0.002$ over $-5^\circ\text{C}$ to $+70^\circ\text{C}$	
Min. Return Loss	dB	60	
Directivity	dB	60	
Max. Optical Power (Continuous Wave)	mW	300	
Configuration		$1 \times 2$ or $2 \times 2$	
Fiber Type		SMF-28 fiber	
Package Dimensions	mm	250 $\mu\text{m}$ bare fiber, $\Phi 3.0 \times 40$ mm for 1310/1550 ( $3.0 \times 55$ mm for 1480/1550) 900 $\mu\text{m}$ loose tube, $\Phi 3.0 \times 56$ mm for 1310/1550 ( $3.0 \times 72$ mm for 1480/1550) 3 mm cable, $90 \times 16 \times 9$ mm	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

\*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

### Package Dimensions



### Ordering Information

WDM-①-②②②②-③-④-⑤

①: Configuration	②②②②: Wavelength	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
1 - $1 \times 2$	3155 - 1310 & 1550 nm	1 - FC/UPC	B - 250 $\mu\text{m}$ bare fiber	1 - 1.0 m
2 - $2 \times 2$	4855 - 1480 & 1550 nm	2 - FC/APC	L - 900 $\mu\text{m}$ loose tube	S - Specify
		3 - SC/UPC	C - 3 mm cable	
		4 - SC/APC	S - Specify	
		N - None		
		S - Specify		