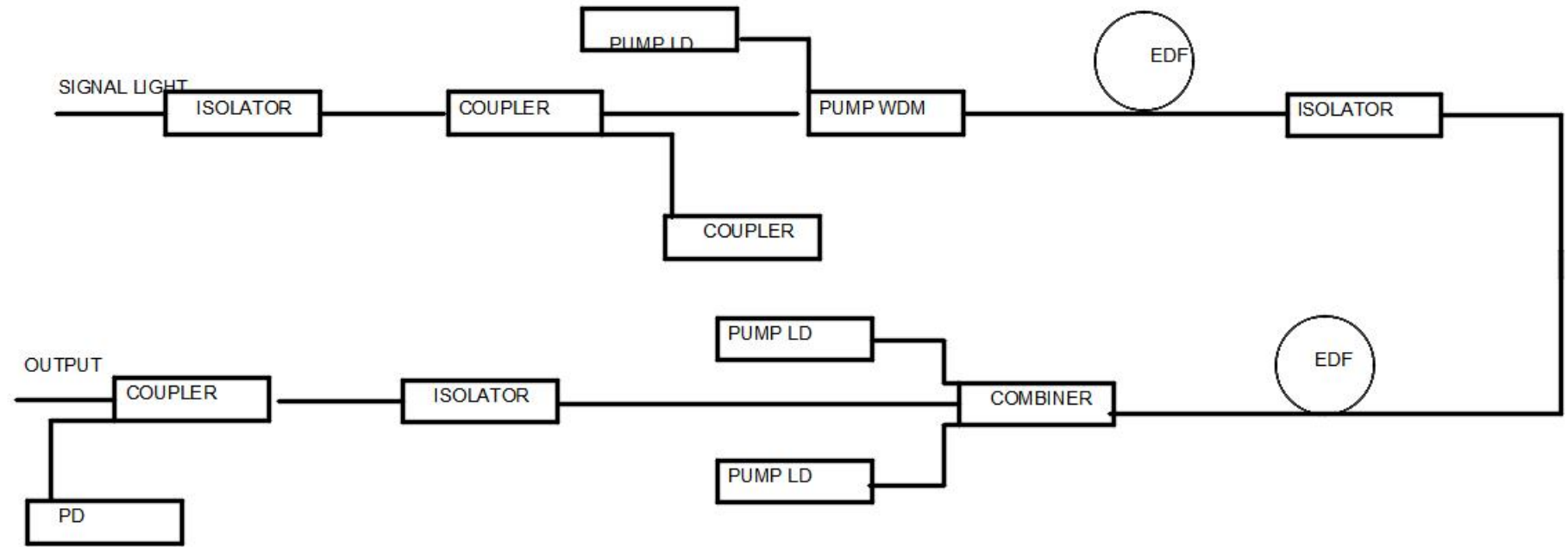


LASER LIDAR APPLICATION FIBER COMPONENTS



- Polarization Insensitive Isolator Dual stage 1550nm, 500mW, 2W, OD 3.0x25mm
- DWDM/Bandpass Filter, 1550nm, 100Ghz, <500mW, 2W, OD 5.5xL35mm
- Isolator+DWDM Filter, 1550nm, 100Ghz <500mW, 2W, OD 5.5xL35mm
- 940/1550nm Pump Filter WDM Coupler
- 1x2 single Mode coupler 1/99% OD 2.4xL25mm
- 1x4 single Mode Coupler 25%, OD 3x54mm
- 2+1x1 Multimode Pump Combiner, SMF-28e to 1550GDF, OD 3.5xL35mm
- 940nm 10/90% Multimode fiber Coupler 105/125 NA 0.22
- 940nm Polarization Insensitive Isolator

Single Mode Coupler

Port	unit	1×2	1×4
Working wavelength	nm	1550	
working bandwidth	nm	±20	±20
model	%	1/99	25/25/25/25
Insertion loss	dB	19.00-21.00 /0.35	7.0
Polarization loss	dB	0.2	0.3
Uniformity	dB	one	1
return loss	dB	50	50
directionality	dB	55	55
Fiber type	/	SMF-28 Ultra	
package size	mm	2.4×25	3.0×54

Multimode Pump Combiner (2+1)x1

structure	unit	(2+1)×1
Working wavelength	nm	Pump: 940, Signal: 1550nm
model	/	(2+1)×1
Insertion loss	dB	0.25
Pump coupling efficiency	%	≥90
return loss	dB	40
Fiber type	/	Signal Fiber:SMF-28 Ultra, Pump Fiber:105/125(0.22NA), Output Fiber:SM-GDF-1550
package size	mm	3.5×35



940nm Multimode Pump Coupler

Port	unit	1×2
Working wavelength	nm	940
working bandwidth	nm	±20
Coupling ratio	%	10/90
Insertion loss	dB	11.2/1.0
Polarization loss	dB	--
Uniformity	dB	--
return loss	dB	27
directionality	dB	25
Fiber type	/	105/125 NA 0.22
package size	mm	OD3 .8x30mm

1550nm Polarization Insensitive Isolator

Working wavelength	nm	1528-1565	
model	/	double stage	
Insertion loss@-40~85°C	dB	0.6	0.6
Insertion loss 85~115°C	dB	0.8	0.8
Isolator@23°C	dB	45	45
PDL -40~85°C	dB	0.15	0.15
return loss	dB	55	55
Polarization Mode Dispersion	ps	0.05	0.05
Average Power	mw	500mw	2W
Pulse Power	KW		2
Fiber type	/	CORNING SMF-28 Ultra	
package size	mm	3.0×25	

940nm Polarization Insensitive Isolator

Parameter	Unit	Value
Center Wavelength	nm	940
Operating Wavelength Range	nm	±10
Insertion Loss@23°C	dB	≤1.0
Isolation @23°C	dB	≥25
PDL	dB	<0.15
Fiber Type	-	HI1060
Return loss	dB	≥50
Average Power handling	W	0.3-2
Peak Power	Kw	2
Operating temperature	°C	0~+50
Storage temperature	°C	-20~+85
Package Dimensions	mm	62x32x28



Pump WDM Coupler 1550/940nm

Transmission Wavelength	nm	1550±20	
Reflection Wavelength	nm	940±20	
Transmission insertion loss	dB	≤0.8	
Reflection insertion loss	dB	≤0.5	
Transmission isolation	dB	≥20	
Reflection isolation	dB	≥15	
polarization	dB	≤0.15	
return loss	dB	T ≥45, R ≥25	
Average power	mw	≤500	≤2000
Pulse Peak Power	KW		≤1
Fiber type		Common: 10/125/125.NA0.12/0.46;	
		Reflection: MMF 105/125.NA0.22:	
		Transmission: SWF-28 UItra	
Package Dimension	mm	5.5×35	



1x2 DWDM Filter

category		DWDM	
Working wavelength	nm	1528-1565	
Center wavelength	nm	ITU Grid(λ_c)	
channel spacing	GHz	100	
channel bandwidth	nm	$\lambda_c \pm 0.125$	
Transmission insertion loss	dB	≤ 0.8	
reflection insertion loss	dB	≤ 0.4	
Transmission Isolation @ Adjacent Channels	dB	≥ 30	
Transmission isolation @ non-adjacent channels	dB	≥ 45	
reflection isolation	dB	≥ 12	
polarization	dB	≤ 0.15	
return loss	dB	≥ 45	
Directivity	ps	≥ 45	
Average power	mW	≤ 500	≤ 2000
Pulse Power	KW		≤ 1.5
Fiber type		CORNING SMF-28 Ultra	
package size	mm	OD5.5×35	

1x2 DWDM Filter +Isolator

category		DWDM+Isolator	
Working wavelength	nm	1528-1565	
Center wavelength	nm	ITU Grid(λ_c)	
channel spacing	GHz	100	
channel bandwidth	nm	$\lambda_c \pm 0.125$	
Transmission insertion loss	dB	≤ 1.0	
reflection insertion loss	dB	≤ 0.4	
Transmission Isolation @ Channel Bandwidth	dB	≥ 30	
Transmission Isolation @ Adjacent Channels	dB	≥ 30	
Transmission isolation @ non-adjacent channels	dB	≥ 45	
reflection isolation	dB	≥ 12	
PDL	dB	≤ 0.15	
return loss	dB	≥ 45	
Directivity	ps	≥ 45	
Average power	mW	≤ 500	≤ 2000
Pulse Power	KW		≤ 1.5
Fiber type		CORNING SMF-28 Ultra	
package size	mm	OD5.5×35(steel tube) OD 3.6x28mm (Glass tube)	