Signal Sending Module

Features

High extinction ratio

High contrast

High coaxiality&Good reproduce ability

Application

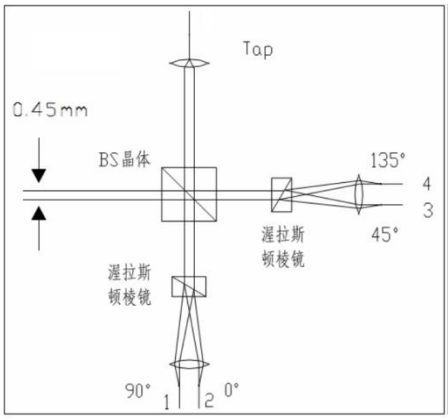
Quantum communication system

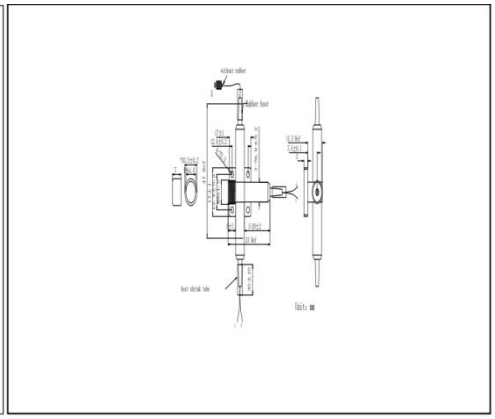
Specifications

Parameter	Unit	Value	
Central wavelength	nm	1550	850
Operating wavelength range	nm	±5	
Minimum extinction ratio 23℃ (From Port 1、2、3、4 to Port 5)	dB	30	
Maximum insertion loss 23℃ (Free Space to Fiber, Only for Port 1、2、3、4@Slow Axis)	dB	4.2	4.5
Insertion loss 23℃ (From Port 1 、2 、3 、4 to Port 5 @ Proper SOP)	%	44±9	43±10
Alignment tolerance（Between 1/2 and 3/4）	deg	Max.±2(Typ.±1)	
Nominal output beam diameter(1/e^2)	mm	0.45(@ 20mm)	0.47(@ 20mm)
Maximum divergence angle (Full Angle)	mrad	4.5	2.2
Maximum consistency(From Port 1、2、3、4 to Free Space)	mrad	0.35	
Maximum return loss	dB	50	
Maximum Transfer power (CW, Total)	mW	100	
Maximum load	N	5	
Fiber type		Port 5： Corning SMF-28e Fiber Other Ports: PM1550 Fiber	
Operating temperature	℃	-5 to + 50	
Storage temperature	℃	-40 to +85	

When using the Connector, the processing power is only 1W, the Insertion loss is 0.3dB higher, the return loss is 5dB lower, and the extinction ratio is 2dB lower. The Connector key is aligned with the slow axis.

Package dimensions





Ordering information

SSM-①①①①-②-③-④-⑤

①①①①:Wavelength
0850=850nm
1550=1550nm
SSSS=Specify

②:Pigtail type
1=250um bare fiber
2=900um loose tube
S=Specify

③:Length
H=0.5m
1= 1.0m
S=Specify

④:Connector
0=None
1=FC/UPC
2=FC/APC
S=Specify

②: Tap port type
1=Slow Axis Aligned to Port 2
2=Slow Axis Aligned to Port 3
3=Slow Axis Aligned to Port 1
4=Slow Axis Aligned to Port 4
5=SMF-28e on Tap Port