

PM Coupler

Telcordia
GR-1221-CORE and
GR-1209-CORE
qualified



Features

- ✧ Low Crosstalk
- ✧ Low Insertion Loss
- ✧ Variety of Bands

Tap: 980/1310/1480/1550

WDM: 980/1550

Applications

- ✧ Monitoring in PM Transmitter
- ✧ PM EDFA

(PM; Polarization Maintaining)

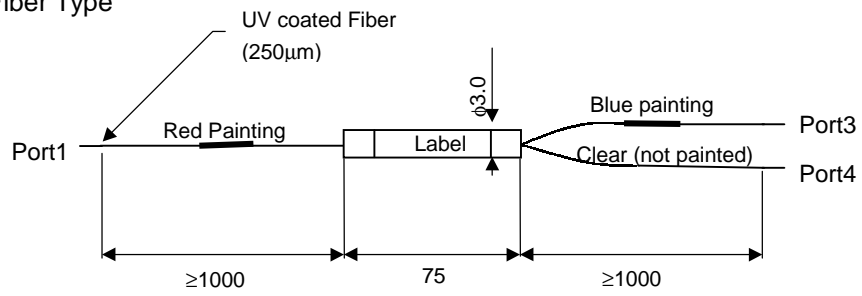
PM Tap Couplers Monitoring for Pump LD (PANDA pigtail)

Coupling Ratio	%	1	5	10	50
Operation Wavelength	nm	1530 ~ 1570			
Excess Loss	dB	Max 0.5			Max 0.7
Insertion Loss (Slow, Thru)	dB	Max 0.5	Max 0.8	Max 1.2	2.5~4.5
Insertion Loss (Slow, Cross)	dB	Min 19.0	Max 14.5	Max 11.5	2.5~4.5
Cross talk (Thru port)	dB	Max -20			
Directivity (X axis)	dB	Min 55			
Operating Temperature	degC	0 ~ 70			
Operating Humidity	RH%	10 ~ 95			
Storage Temperature	degC	-40 ~ 85			
Storage Humidity	RH%	10 ~ 95			
Fiber type		Fujikura SM.15P (Panda Fiber)			
Fiber lead length	m	1 (Standard)			
Fiber Configuration		1x2 or 2x2			
Dimension (Main Body)	mm	2x2 : 3.0mm dia. X 70mm L (SUS tube) 1x2 : 3.0mm dia. X 75mm L (SUS tube)			

PM-WDM Couplers

Parameter		Unit	
Window (Coupler Type)		nm	980/1550
Operating Wavelength Range	Pump path	nm	970-990
	Signal path	nm	1530-1570
Insertion Loss	Pump path	dB	Maximum 0.3
	Signal path	dB	Maximum 0.6
Wavelength Dependent Loss	Pump path	dB	0.1
	Signal path	dB	0.3
Port			1x2 or 2x2
Return Loss	Min.	dB	43(pump)/50(sig.)
Directivity	Min.	dB	55
Crosstalk	Signal path	dB	Maximum -20
Fiber Type			FJK PANDA fiber
Fiber Length		m	1 (standard)
Package Dimensions (dia. X L)		mm	2x2 : φ3.0mm xL70mm
			1x2 : φ3.0mm xL75mm
Operating Temperature		degC	0 to 70
Storage Temperature		degC	-40 to 85

UV coated Fiber Type



Loose Tube Type

