

Polarization-Maintaining Fiber Optic Patch Cords

Panda-fiber PM jumpers with high extinction ratio, precision slow-axis alignment, and low insertion loss across 1064 / 1310 / 1550 nm



PRODUCT OVERVIEW

Polarization jumpers have orthogonal "slow" and "fast" axes with different propagation constants. There is little coupling between the polarization modes, therefore, light launched on one axis would propagate on that axis. It features high extinction ratio as a result of very accurate active alignment between PM major axis and the connector key. Various PM fiber and connectors are available.

OPTICAL & GENERAL SPECIFICATIONS

Room temperature unless otherwise noted

PARAMETER	1064 NM	1310 NM	1550 NM	UNIT
Operating Wavelength	1064	1310	1550	nm
Connector Type	FC/UPC, SC/UPC, LC/UPC, FC/APC, SC/APC, LC/APC			—
Insertion Loss	≤0.2	≤0.3	≤0.5	dB
Extinction Ratio	≥26	≥23	≥20	dB
Return Loss	APC ≥ 50 / UPC ≥ 55			dB
Repeatability	≤0.1			dB
Optical Power	≤500			mW
Fiber Length Tolerance	5			%
Fiber Type	Panda fiber			—
Operating Temperature	-5 to +75			°C
Storage Temperature	-40 to +85			°C

ORDERING INFORMATION

FPC / ① - ② - ③ - ④ - ⑤ - ⑥ - ⑦

① OPERATING WAVELENGTH	② GRADE	③ CONNECTOR ALIGNMENT	④ FIBER TYPE	⑤ FIBER DIAMETER	⑥ FIBER LENGTH	⑦ CONNECTOR
106 : 1064 nm	S : S	F : Fast	P : Panda	2 : 250µm	05 : 0.5 m	FA : FC/APC
13 : 1310 nm	P : P	S : Slow	X : XX	9 : 900µm	10 : 1 m	SA : SC/APC
15 : 1550 nm	A : A	—	—	2 : 2.0 mm	15 : 1.5 m	LA : LC/APC
X : XX	—	—	—	3 : 3.0 mm	X : XX	—

- Note 1: The PM fiber and the connector key are aligned to the slow axis.
- Note 2: Insertion loss, return loss and extinction ratio values specified are without connector loss.
- Note 3: Specifications are subject to change without notice.