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## FORJ: Ultra low reflection fiber rotary joints (MJP Series)



MJP-155-28

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MJP-SAP-131

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The MJP series FORJs distinguish themselves from other Princeton single-channel FORJs such as the the popular RPT model. Model MJP is not fluid filled. It offers very high return loss performance (>55 or >60 dB). Start up torque is lower and it can spin at high speed, perfect for optical coherence tomography (OCT) applications. It can also accept custom fibers, primarily fibers with cladding diameter larger than 125 um.

The second picture on the left shows a standard MJP in a drive mechanism (gear) and SC/APC receptacle. We also offer a belt drive version (download drawing near the bottom of the page). Both versions are very convenient for OCT applications. The FORJ is isolated mechanically from the gear and the SC receptacle so the probe won't have any adverse effect on the performance of the FORJ.

Note: All insertion loss and return loss measurements are performed by joining the FORJ to the light source through fusion splice (without the use of connectors). Insertion loss of all receptacle type of FORJs, such as RST, RFC, and RFCX, are measured with connectors of similar type. Their return loss is not measured.

## SPECIFICATIONS

PARAMETERS	VALUES
Wavelength	1310, 1550 nm, or both (850, 1310 nm, or both)
Insertion loss	<2 dB (typical: <1 dB)
Insertion loss ripple	<+/-0.5 dB
Return loss (SM)	>55 dB (MJPP: >60 dB)
Maximum speed	10,000 rpm
Pressure compensation	No (Consider our <b>RPC series FORJs</b> )
Pulling strength	10 N (900 um buffer)
Start up torque	<0.01 Nm
Estimated life cycle	>500 million revolutions (1,000 rpm/365 days continous)
Optical power handling	>23 dBm
Working temperature	-20 to 65 C
Storage temperature	-25 to 75 C
Package style	Pigtail on both ends
Housing material	Stainless steel
Fiber types	Singlemode or multimode
Connector types	FC, SC, ST, SMA, LC or /APCs
Dimensions	17.0 mm dia. x 48.5 mm length
Weight	~85 g
Vibration	MIL-STD-167-1A
Mechanical shock	MIL-STD-810G
<b>IP rating</b>	IP 50

## CREATE YOUR PART NUMBER

MJP- **wavelength code**- **fiber code**- **connector code**

## DOCUMENTS DOWNLOAD

- ▶ [Download PDF drawing for MJP \(plain FORJ\)](#)
- ▶ [Download PDF drawing for MJP-SAP \(gear drive\)](#)
- ▶ [Download PDF drawing for gear](#)
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