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## FORJ: Two-channel fiber optic rotary joint (MJ2 series, MM)



MJ2-131-62

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The dual-pass Fiberoptic Rotary Joint (FORJ) connects two independent fiber channels simultaneously. It allows uninterrupted transmission of optical signals while rotating along the common mechanical axis. Princetel's unique patented design provides customers with significant advantage on size, performance, availability, and cost. The device accommodates two standard multimode fibers. Check out our **ZJn** or **MXn** series FORJs for two singlemode channels.

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	1310/850 nm or 1310/1550 nm
Insertion loss	<4 dB/channel 1, <6 dB/channel 2(Premium: <4 dB)
Insertion loss WOW	<+/-1 dB
Return loss	~15 dB
Crosstalk	>50 dB
Maximum speed	100 rpm
Pulling strength	10 N (900 um jacket)
Start up torque	<0.2 Nm
Estimated life cycle	100-200 million revolutions
Optical power handling	23 dBm
Working temperature	-40 to 72 C
Storage temperature	-45 to 75 C
Package style	Pigtails on both ends
Housing material	Stainless steel
Fiber types	MM w/3 mm cable (Kevlar lined) or armor
Connector types	FC, SC, ST, SMA, or LC
Dimensions	20 mm dia. x 65 mm length
Weight	100 g
Vibration	MIL-STD-167-1A
Mechanical shock	MIL-STD-810G
IP rating	IP 60 (optional IP65)

## CREATE YOUR PART NUMBER

MJ2- wavelength code- fiber code- connector code

## DOCUMENTS DOWNLOAD

- [Download PDF drawing for MJ2](#)
- [Download Solidworks 3-D drawing for MJ2](#)