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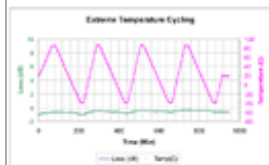
FORJ: Single-channel fiber optic rotary joints (R series)




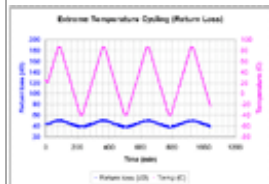
RST, RPT, & RFC
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RFCPT-155-28
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IL temperature cycling
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RL temperature cycling
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FORJ catalog
 Product selection guide

The R series Single-channel (SM or MM) rotary joints are the most versatile designs the market has ever seen. The rugged body allows fiber pigtail, ST, or FC receptacles on either the rotor side or the stator side. One can configure the package to fit his need exactly. The standard base models are RPT, RFC, and FST for pigtails, FC/UPC, and ST/PC receptacles.

The R series features extremely low insertion loss and impressive return loss performance for both singlemode and multimode fibers. Model RPTA guarantees return loss as high as 50 dB. These rugged devices can operate under arctic temperature environment (See insertion loss and return loss temperature cycling plots on the left). All models are dust and water tight for harsh environment. Optional pressure compensation is available with model RPTPC for underwater applications.

SPECIFICATIONS

PARAMETERS	VALUES
Wavelength range	650-1650 nm
Insertion loss	<2 dB/RPT&RPTA; <3 dB/RFC; <3 dB/RST
Insertion loss ripple	<+/-0.25 dB (typical: +/-0.15 dB)
Return loss (SM&MM)	>40 dB(RPT), >30 dB(RFC/RST), >50 dB(RPTA)
Maximum speed	2,000 rpm
Pressure compensation	10,000 psi (RPT only; RPC for higher pressure)
Pulling strength	10 N
Start up torque	<0.1 Nm
Estimated life cycle	200-400 million revolutions
Optical power handling	23 dBm
Working temperature	-40 to 65 C
Storage temperature	-50 to 85 C
Package style	Pigtail or receptacles (FC, FC/APC, or ST)
Housing material	Stainless steel
Fiber types	SM/MM, 3 mm Kevlar/PVC or 2.9 mm armore
Connector types for RPT	FC, SC, ST, SMA, or LC (PC and APC)
Dimensions	17 mm dia. (body) x 26 mm dia. (flange)
Weight	~50 g
IP rating	IP 68 for all models

CREATE YOUR PART NUMBER

RPT- wavelength code- fiber code- connector code
 RPTA- wavelength code- fiber code- connector code
 RPTPC- wavelength code- fiber code- connector code
 RFC- wavelength code- fiber code
 RST- wavelength code- fiber code

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