

Optical Rotary Joint

Datasheet

DE-0948



Preliminary

Overview

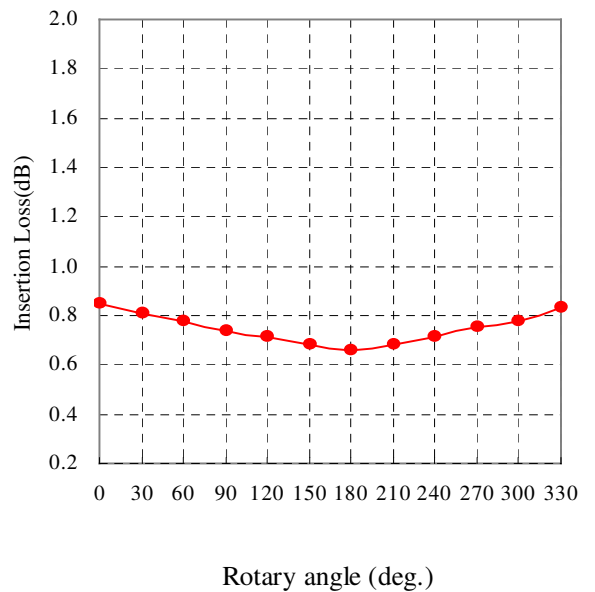
Optohub optical rotary joints are rotary joints based the micro-optics technology. Optohub optical rotary joints are a stable performance based collimator technology and YAG welding technology.

Features

- Low insertion loss : 2.0dB or less
- Insertion loss variation : +/-0.5dB or less
- High durability for the contact less collimator coupling
- High reliability for using YAG welding technology
- Dustproof

Applications

- Optical instrumentation turntable
- Fiber winding drum



Example of insertion loss

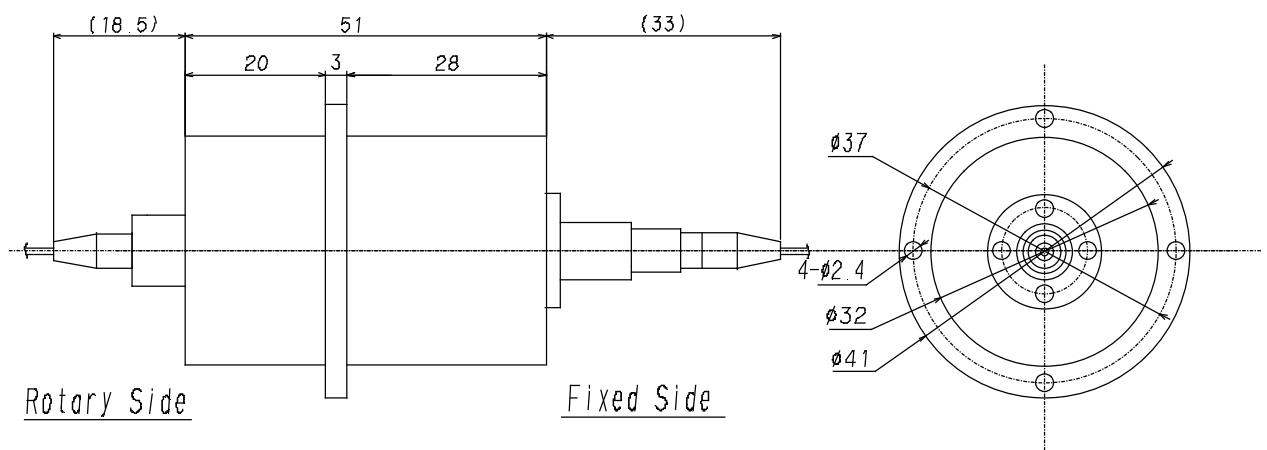
Absolute Maximum Ratings

Parameters	Ratings	Note
Maximum input power	300mW	
Operating temperature	-20 - +60 C	
Storage temperature	-20 - +85 C	

Specification

Parameters	DE-0948-A	DE-0948-B	DE-0948-C	Note
Channel number	1			
Optical fiber	SMF			
Optical fiber diameter	0.9mm			
Wavelength	1260 - 1360nm	1500 - 1600nm	1260 - 1660nm	
Insertion loss	2dB or less		3dB or less	
Insertion loss variation	+/-0.5dB or less		+/-1dB or less	
Return loss	50dB or less			without connector
Maximum load	10N			
Optical connector	SC or FC			
Optical fiber length	1 +/- 0.1 m			

Outline Drawings



Unit : mm