

# QRJ1-18000-32

## Singal Channel, DC~18GHz, 32.8mm

- |                               |  |
|-------------------------------|--|
| <b>Features:</b>              | <b>Applications:</b>                     |
| * Low VSWR                    | * High Speed Digital Signal Transmission |
| * Low VSWR Flatness           | * Analog Signal Transmission             |
| * Low Insertion Loss Flatness |  |

### Electrical (Rotary Joint)

Frequency:	DC~18GHz
VSWR:	1.4 max.
VSWR Flatness:	0.05 max.
Insertion Loss:	0.3dB max.
Insertion Loss Flatness:	0.05 dB max.
Phase Flatness:	1° max.
Average Power:	500W max. @1GHz 200W max. @6GHz 100W max. @12GHz 30W max. @18GHz
Peak Power:	3000W max.
IP Grade:	IP40 acc. EN 60529

### Mechanical (Rotary Joint)

Connectors:	SMA female
Rotating Speed:	250RPM max.
Starting Torque:	0.5N.cm max.
Connector Axial Load:	±0.1N max.
Rotating Torque:	0.5 N.cm max.
Connector Radial Load:	±0.1N max.
Operation Life:	10M Cycles
Dielectric:	PTFE

### Environmental

Temperature (Rotary Joint):	-55~+85°C
Temperature (Slip Ring):	-30~+80°C

### Color Code of Lead Wire

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU

Ring	13	14	15	16	17	18	19	20	21	22	23	24
Color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparet

Remark: "1" : the first wire from rotor side , QRJ1-18000-32-12S wire color sequence: BLK/BRN/RED/ORG/YEL/GRN, 24 color wires asone group , if more than 24 wires, repeat as sequence , use number tube to tell group 1#, 2#....

### Electrical (Slip Ring)

Voltage:	0~240V
Impedance of Dielectric:	300MΩ min.
Lead Wire:	AWG#26 Silver plated Teflon
Dielectric Resistance:	300V AC @50Hz, 60s
Electrical Noise:	0.01Ω max.
IP Grade:	IP51

### Mechanical (Slip Ring)

Operation Life:	10M Cycles
Rotating Speed:	250RPM max.
Contact Material:	Gold
Housing:	Aluminum alloy
Torque:	0.01N.m @6 Channels + 0.05N.m

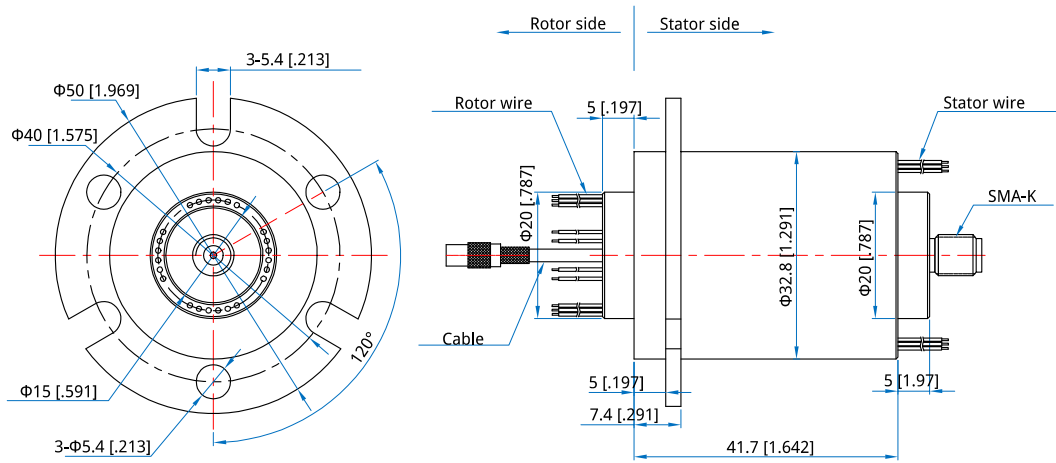
### How To Order

#### QRJ1-18000-32-X-Y

X: Power Circuits  
For example:  
0610 - 6 circuits@10A  
Y: Signal Circuits  
For example:  
06S - 6 circuits signal@2A

Customization is available upon request.

## Outline Drawings



Unit: mm [in]

Tolerance:  $\pm 0.2\text{mm}$  [ $\pm 0.008\text{in}$ ]