

High Frequency Slip Ring



Main Application

- ◆ Electrical test equipment
- ◆ Manufacturing and process control equipment
- ◆ Indexing tables.
- ◆ CCTV pan / tilt camera mounts
- ◆ Robotics, rotary sensors, urgent illumine equipment
- ◆ Exhibit / display equipment.
- ◆ Aviation military, instrument, medical equipment
- ◆ Mini-type wire-rolling machine
- ◆ Closed-circuit control

Option

- ◆ Placement of custom circuitry directly onto the unit
- ◆ Custom mechanical integration features
- ◆ Addition of special components
- ◆ Inclusion of coax and miniature data bus cables

Contact us to discuss your special needs

LPC-1C1202

Slip Ring RF Coaxial Connector

Description

This unit can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power or data from a stationary to a rotating structure.

It is also called a rotary electrical interface, commentator, collector, swivel or an electrical rotary joint. It can improve electromechanical capability, simplify system design, eliminate possible damage while rotation. It's the key apparatus of various precision rotary worktable, electric test instrument, manufacture and process control instrument.

The LPC-1C1202 slip ring is a special unit with RF Coaxial Connector. Color-coded lead wires are used on both the stator and rotor for simplifying electrical connections.

Using a 90° V-groove ring design for each ring, the LPC-1C1202 provides smoother running, lower torque and lower electrical noise than competitive slip rings.

Features

- ◆ 12 circuits models
- ◆ 2 amps per circuit, 240VAC/DC
- ◆ Precision ball bearings meet or exceed life requirements for most commercial applications
- ◆ Gold-gold contacts
- ◆ Compatible with data bus protocols
- ◆ Sealed units are available
- ◆ Flexible, color-coded, silver-plated, lead wires
- ◆ Transfers analog and digital signals

Advantage

- ◆ Low torque minimizes system torque budget
- ◆ Compact design to fit in the most demanding space.
- ◆ Smooth running
- ◆ Low electrical noise
- ◆ Quick shipment per your urgent requirement
- ◆ 360° continuous rotation
- ◆ High bandwidth transfer capability
- ◆ Transferring SDI signal

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Specifications		Capsule Length =L		
Operating Speed	80 rpm max	# of Circuits	L (mm)	Part No
Number of Circuits	12			
Voltage	240 VDC/AC	12	39.8 mm	LPC-1C1202
Current Rating	2 amps per circuit			
Temperature Range	-20°C ~ +60°C	Contact us on wire color codes		
Working Humidity	60%RH or higher			
Contact Material	Gold to Gold			
Lead Size	AWG28			
Housing Material	Aluminum alloy			
Lead Length	Standard 250 mm			
Insulation Resistance	100mΩ@500VDC			
Electric Noise	< 15mΩ			
IP	IP50			
Housing Material	Aluminum alloy			
Cable Length	250mm			
Contact Material	Precious Metal			
Pull Force	10 N (Reference)			
Specific Impedance	50Ω	75Ω		
Frequency Range	DC-3GHz	DC-1.5GHz		
Insertion Loss	< 1.5 dB	< 3 dB		
Insertion loss change	< 0.1 dB	< 0.1 dB		
VSWR	< 1.8	< 3		
VSWR --WOW	< 0.1	< 0.1		
Phase-WOW	1°	1°		
Cable	TFLEX-405/RG316	RG179		
Cable length	250mm /250mm (Optional)	250mm /250mm (Optional)		
Connector Type	SMA / BNC / MCX /F (Optional)	SMA / BNC / MCX /F (Optional)		

