

# MPCB050 Series PCB Slip Ring

MPCB050 ultrathin pancake series slip ring, adopt PCB substrate, thickness can up to 5.8 mm, which made of super hard gold plating, super thick copper foil process, maximum current can up to 10A, color-coded lead wires are used on both the stator and rotor for simplified electrical connectors.



## Part# Explanation

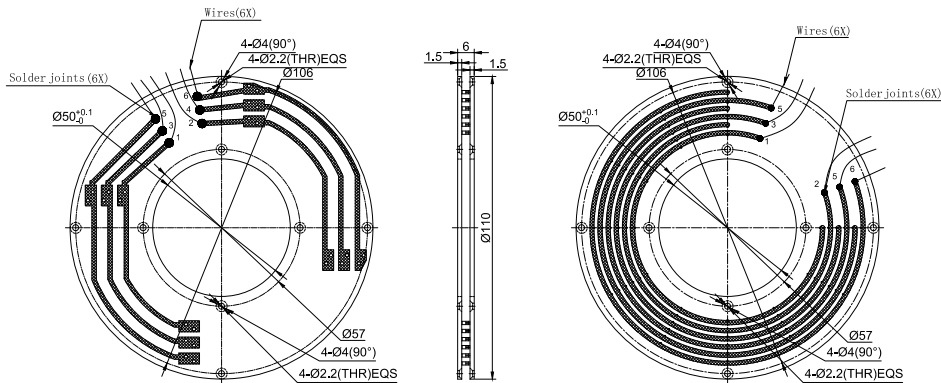
MPCB 050 - S 06 - VC				Products quality level
MPCB: PCB slip ring	050: ID50mm	S: Signal ring	06: 6 rings(0~5A)	VC: common quality version
				VD: industrial quality version
				Default =VC version

## Parts# List

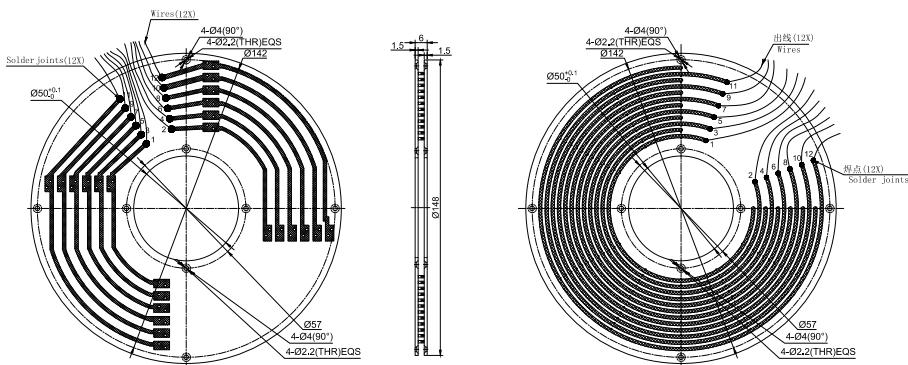
MPCB050 Series Parts# List							
Part#	10A	Signal or 5A	Rings	Part#	10A	Signal or 5A	Rings
MPCB050-S06	0	6	6	MPCB050-S12	0	12	12
MPCB050-P1210	12	0	12				

Note:1) N channels 5A rings parallel can be used as 1 channel N\*5A current. For example: 2 rings 5A parallel could be used as 1 wires 10A  
2) ID and circuits can be customized according to customers' requirements, plz contact with sales representative

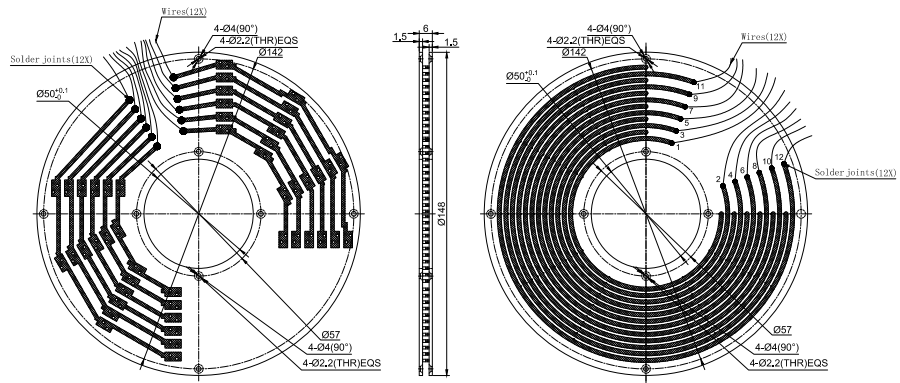
## 1. MPCB050-S06 dimensions



## 2. MPCB050-S12 dimensions



## 2. MPCB050-P1210 dimensions



### Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
Working Life	See Product Quality Level Table		Power	Signal
Rotating Speed	See Product Quality Level Table	Rated Voltage	0~440VAC/VDC	0~240VAC/VDC
Working Temperature	-30°C~80°C	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Operating Humidity	0~85% RH	Lead Wires	AWG16#Silicone Wire	AWG22#Silicone Wire
Contact Material	See Product Quality Level Table	Lead Length	Standard 300mm ( adjustable )	
Contact Material	Aluminum alloy	Dielectric Strength	500VAC@50Hz , 60s	
Torque	0.05N.m ; +0.03N.m/6rings	Electrical Noise	<0.01Ω	
Protection Grade	IP41			

### Product Quality Level Table

Products Level Code	Max Rotating Speed	Working Life	Contact Material
VC	100RPM	5 Million Revs	Precious Metal
VD	300RPM	20 Million Revs	Gold-Gold

### Lead Wires Color Code

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YEL	GRN	BLU	WHT	BLK	RED	YEL	GRN	BLU	WHT

(6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe).

### Options for custom slip ring

Note : The following special requirements can be customized, lead time will increase 3 ~ 15 days, cost increased 5% ~ 50%, most of basic parts have standardized, modular, customized also can greatly reduce the cost and lead time.

- 1) Can be customized for different bore size.
- 2) Can be customized for different circuits.
- 3) Can add housing for protection



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