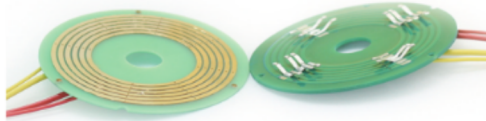


MPCB Series PCB slip ring

MPCB series pancake PCB slip ring is used for highly limited height space, extend transverse space that could satisfy the requirement of special space, typical characteristics are small height, large diameter. Contact with precious metals which have high stability, low torque, low loss, maintenance-free, low electrical noise, long working characteristics, especially widely used in small space!



Features

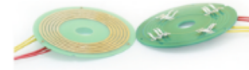
- Thickness can up to 5.8mm
- 2 Precious metals contact with high stability, high reliability

MPCB Series models

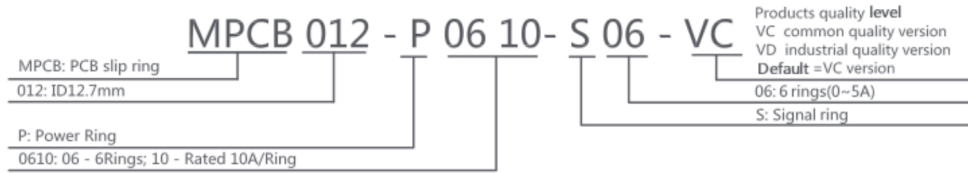
Model#	ID(mm)	Thickness(mm)	Rings (circuits)
MPCB012	127	6	1~12
MPCB025	25.4	6	1~12
MPCB038	38.1	6	1~12
MPCB050	50	6	1~12

MPCB012 Series PCB Slip Ring

MPCB012 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

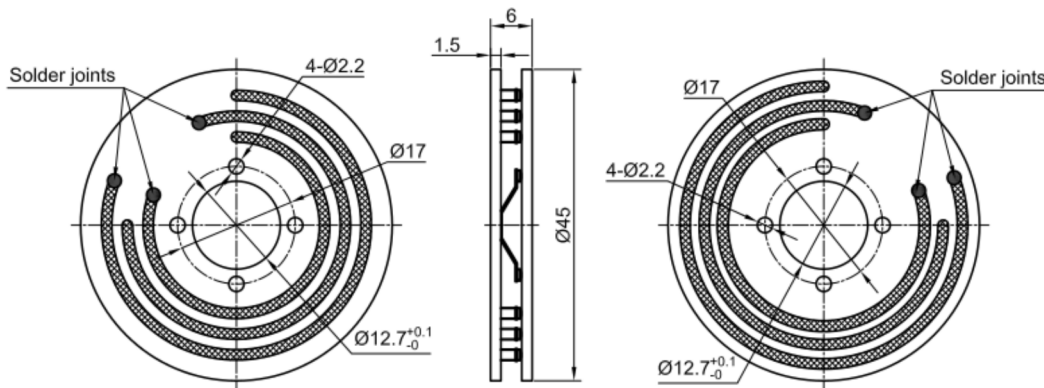


Part# Explanation

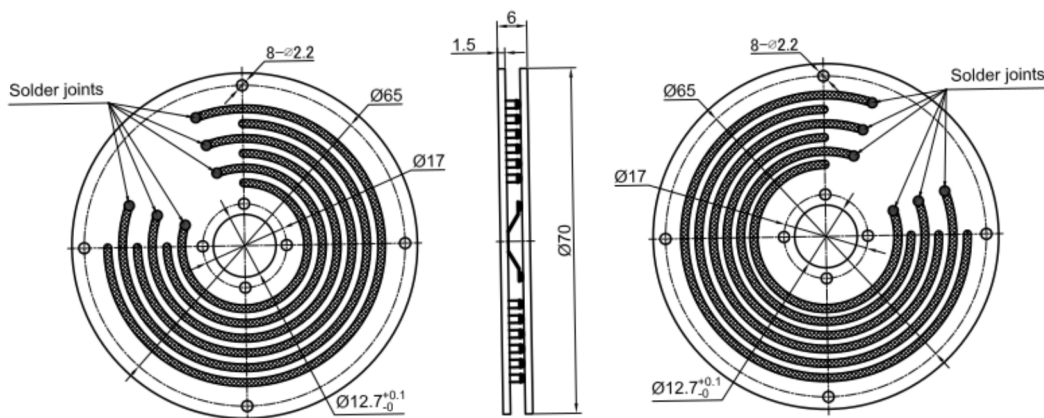
MPCB012 Series Parts# List							
Part#	10A	Signal or 5A	Rings	Part#	10A	Signal or 5A	Rings
MPCB012-P0310	3	0	3	MPCB012-S03	0	3	3
MPCB012-P0210-S04	2	4	6	MPCB012-P0410-S02	4	2	6
MPCB012-S06	0	6	6	MPCB012-P0610	6	0	6
MPCB012-P1210	12	0	12	MPCB012-P0210-S10	2	10	12
MPCB012-P0410-S08	4	8	12	MPCB012-P0610-S06	6	6	12
MPCB012-P0810-S04	8	4	12	MPCB012-S12	0	12	12

Note:1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
2) ID and circuits can be customized according to customers' requirements, plz contact with sales representative

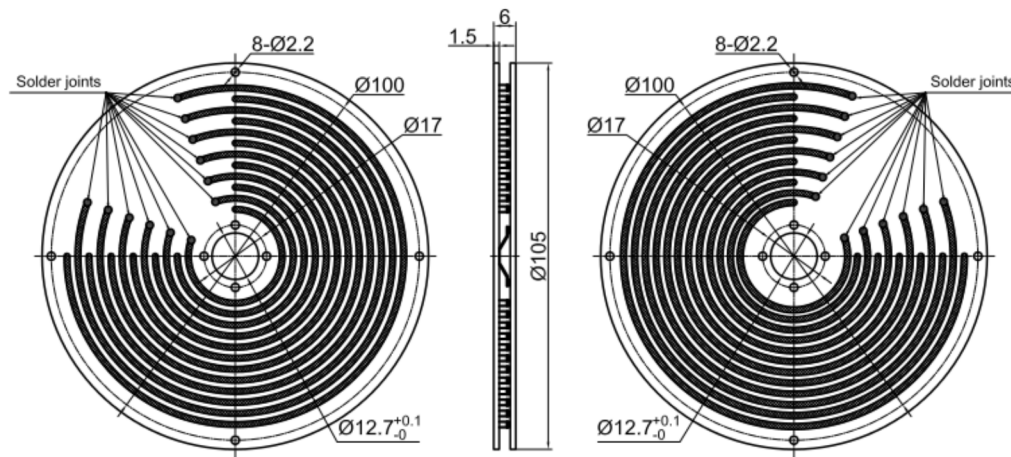
1. Number of rings 3 - Dimensions



2. Number of rings 6 - Dimensions



3. Number of rings 12 - 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	0~440VAC/VDC
Working Temperature	-30°C~80°C	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Operating Humidity	0~85% RH	Lead Wires	AWG16#Teflon	AWG22#Teflon
Contact Material	See Product Quality Level Table	Lead Length	Standard 300mm (adjustable)	
Contact Material	Aluminum alloy	Dielectric Strength	500VAC@50Hz , 60s	
Torque	0.1N.m ; +0.03N.m/6rings	Electrical Noise	<0.01Ω	
Protection Grade	IP51			

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).

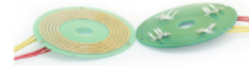
Options for custom slip ring

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

MPCB025 Series PCB Slip Ring

MPCB025 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

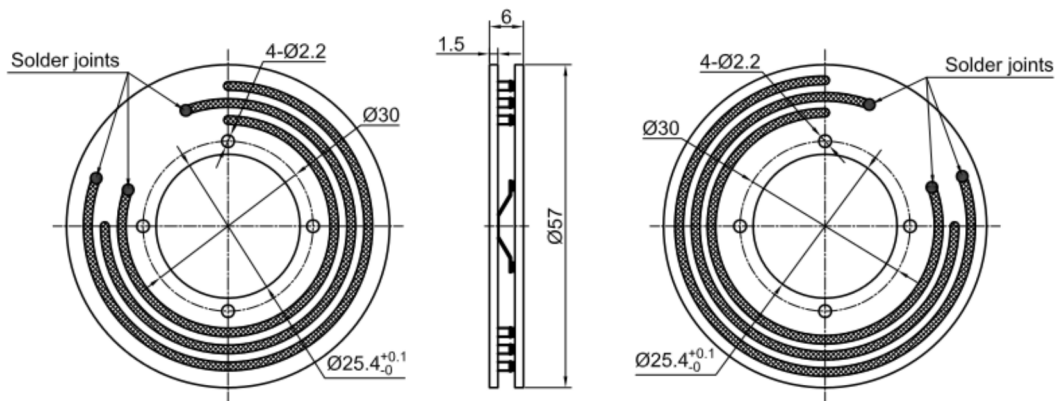


Parts# List

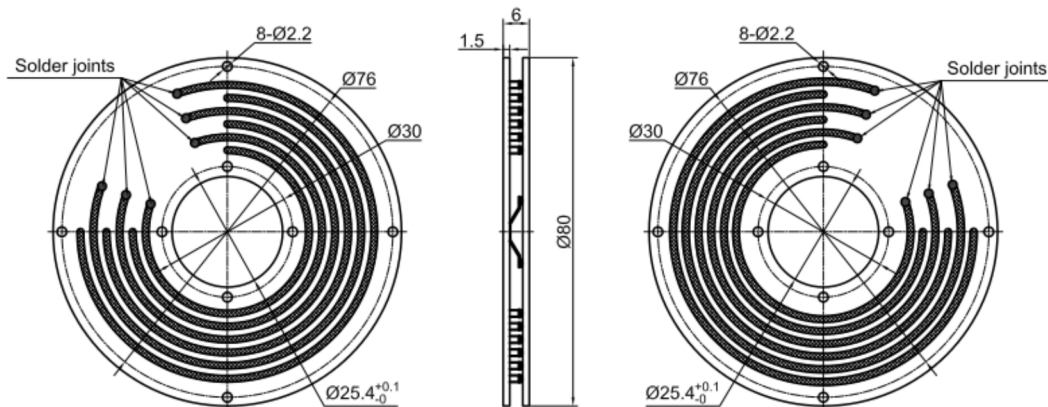
MPCB025 Series Parts# List							
Part#	10A	Signal or 5A	Rings	Part#	10A	Signal or 5A	Rings
MPCB025-P0310	3	0	3	MPCB025-S03	0	3	3
MPCB025-P0210-S04	2	4	6	MPCB025-P0410-S02	4	2	6
MPCB025-S06	0	6	6	MPCB025-P0610	6	0	6
MPCB025-P1210	12	0	12	MPCB025-P0210-S10	2	10	12
MPCB025-P0410-S08	4	8	12	MPCB025-P0610-S06	6	6	12
MPCB025-P0810-S04	8	4	12	MPCB025-S12	0	12	12

Note:1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
2) ID and circuits can be customized according to customers' requirements, plz contact with sales representative

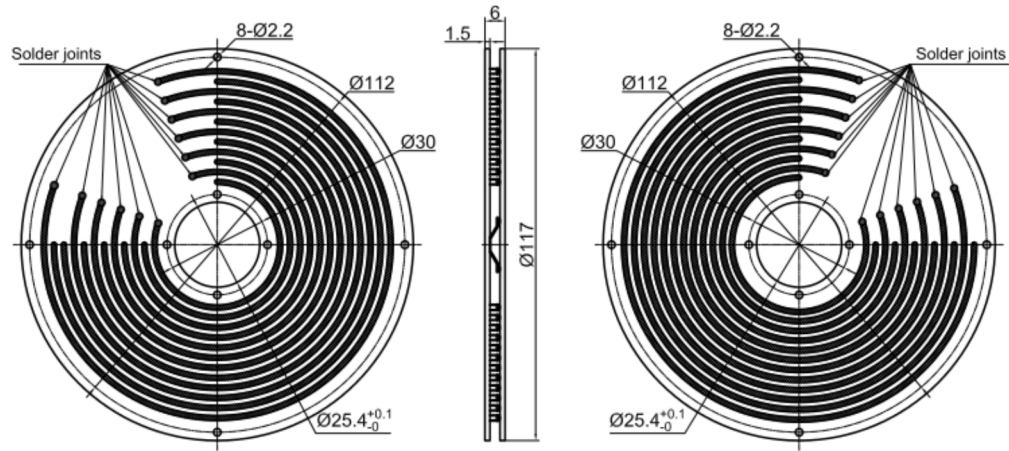
1. Number of rings 3 - Dimensions



2. Number of rings 6 - Dimensions



3. Number of rings 12 - 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#Teflon	AWG22#Teflon
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	IP51			

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).

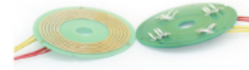
Options for custom slip ring

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.

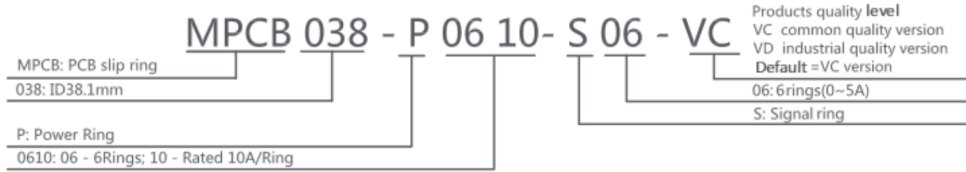
- 1) Can be customized for different bore size.
- 2) Can be customized for different circuits.
- 3) Can add housing for protection

MPCB038 Series PCB Slip Ring

MPCB038 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

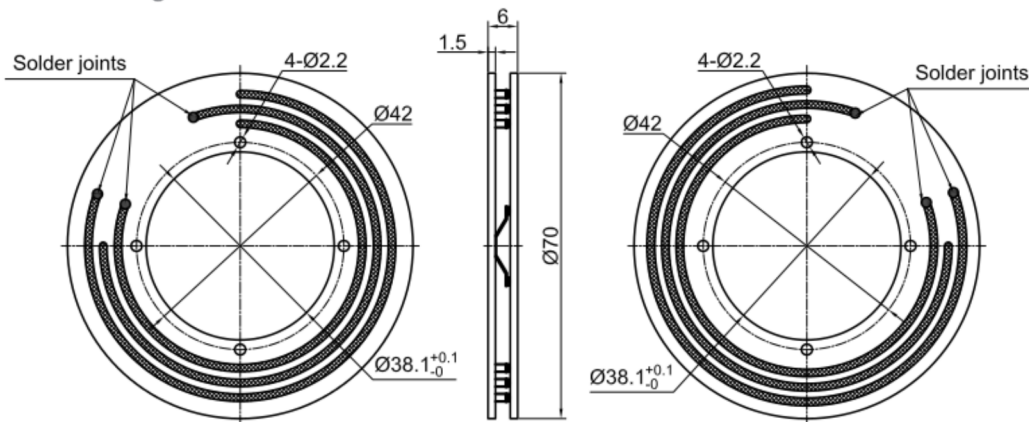


Part#

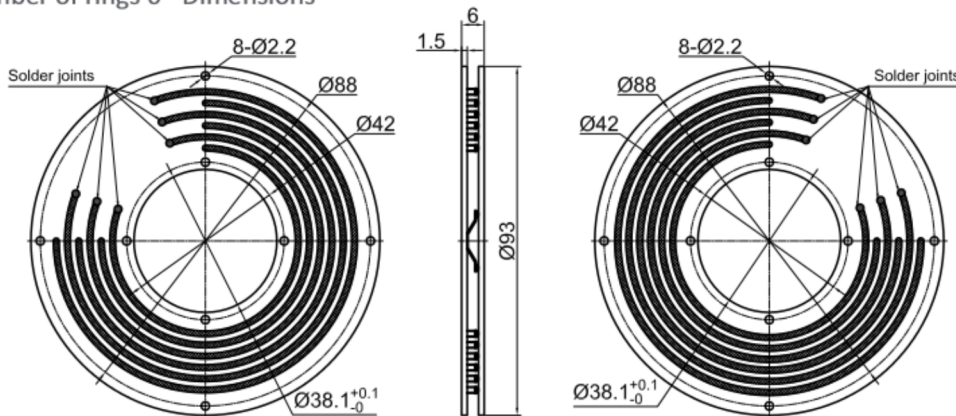
MPCB038 Series Parts# List							
Part#	10A	Signal or 5A	Rings	Part#	10A	Signal or 5A	Rings
MPCB038-P0310	3	0	3	MPCB038-S03	0	3	3
MPCB038-P0210-S04	2	4	6	MPCB038-P0410-S02	4	2	6
MPCB038-S06	0	6	6	MPCB038-P0610	6	0	6
MPCB038-P1210	12	0	12	MPCB038-P0210-S10	2	10	12
MPCB038-P0410-S08	4	8	12	MPCB038-P0610-S06	6	6	12
MPCB038-P0810-S04	8	4	12	MPCB038-S12	0	12	12

Note:1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
 2) ID and circuits can be customized according to customers' requirements, plz contact with sales representative

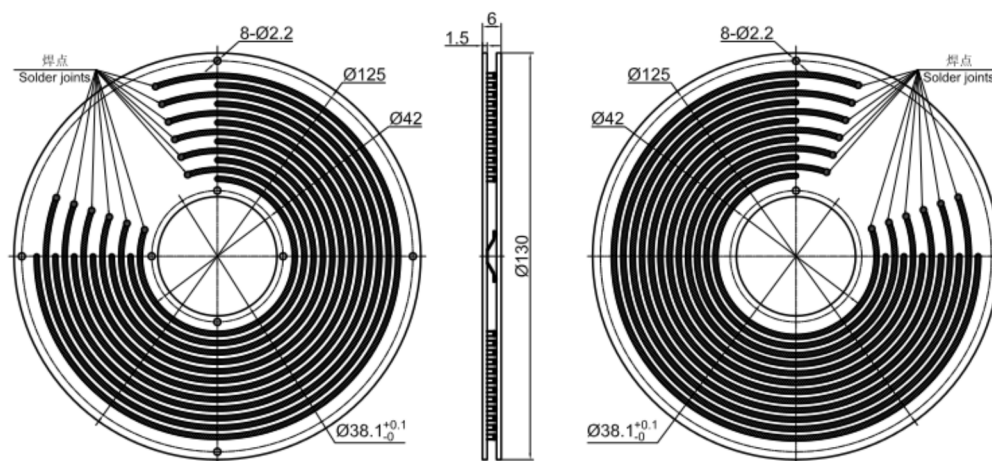
1. Number of rings 3 - Dimensions



2. Number of rings 6 - Dimensions



3. Number of rings 12 - 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#Teflon	AWG22#Teflon
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	IP51			

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).

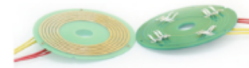
Options for custom slip ring

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

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

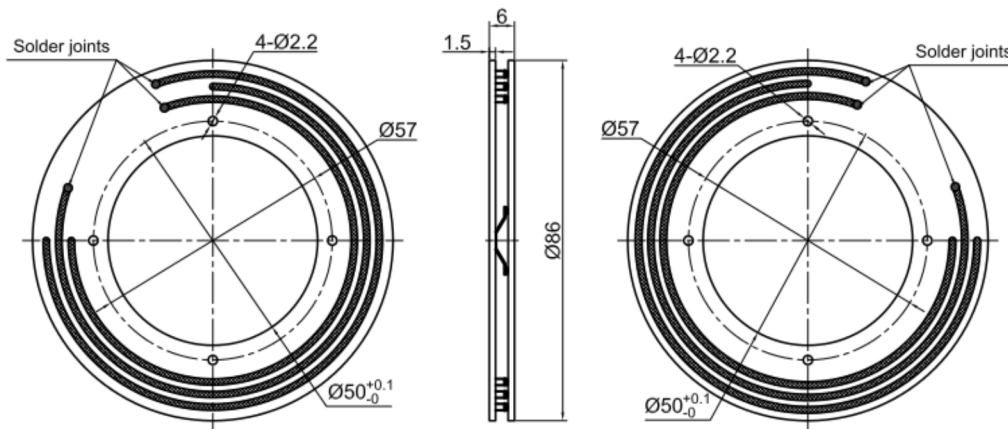


Parts# List

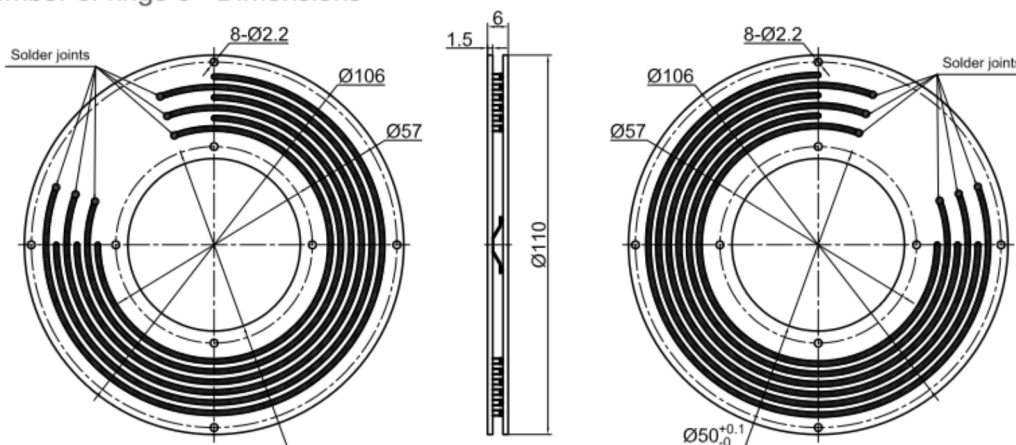
MPCB050 Series Parts# List							
Part#	10A	Signal or 5A	Rings	Part#	10A	Signal or 5A	Rings
MPCB050-P0310	3	0	3	MPCB050-S03	0	3	3
MPCB050-P0210-S04	2	4	6	MPCB050-P0410-S02	4	2	6
MPCB050-S06	0	6	6	MPCB050-P0610	6	0	6
MPCB050-P1210	12	0	12	MPCB050-P0210-S10	2	10	12
MPCB050-P0410-S08	4	8	12	MPCB050-P0610-S06	6	6	12
MPCB050-P0810-S04	8	4	12	MPCB050-S12	0	12	12

Note:1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
 2) ID and circuits can be customized according to customers' requirements, plz contact with sales representative

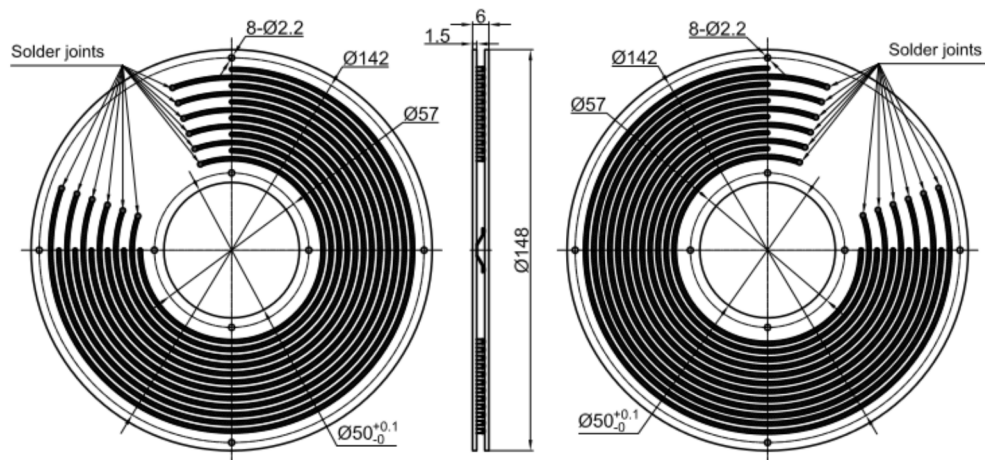
1. Number of rings 3 - Dimensions



2. Number of rings 6 - Dimensions



3. Number of rings 12 - 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#Teflon	AWG22#Teflon
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	IP51			

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



TDS Precision Products GmbH
Industriestrasse 1a
CH-8157 Dielsdorf

T + 41 44 885 30 80
info@tds-pp.com
www.tds-pp.com