

# MPM/MPF SERIES



Magnetic Spring Loaded (POGO) Connectors

## Features

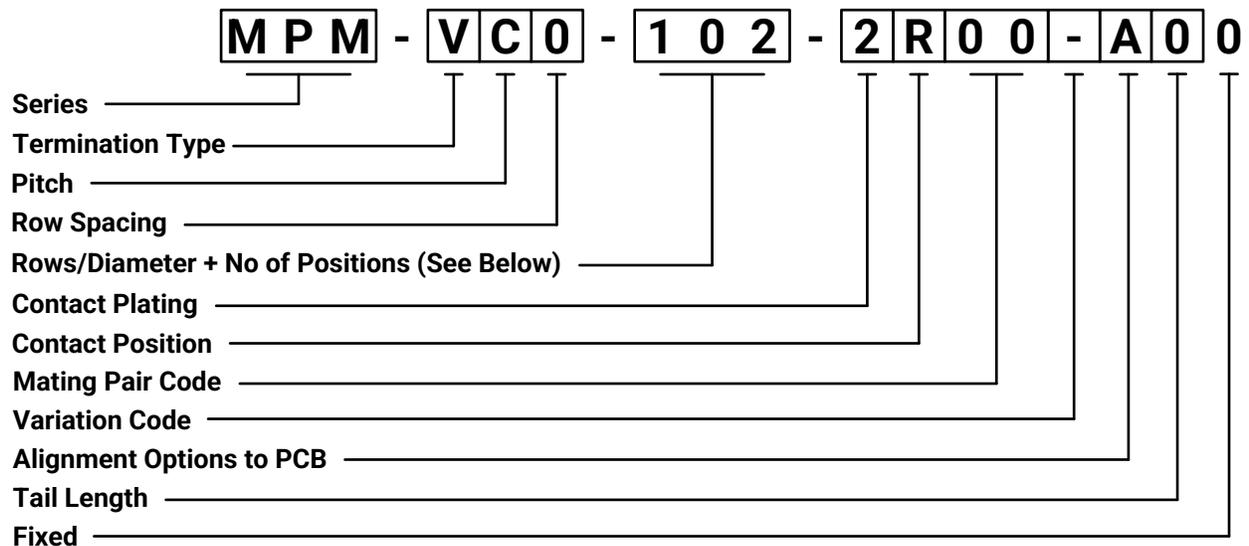
- Vertical through hole termination type
- Rectangular and circular options available
- Mechanical and magnetic polarization
- Tear-away design prevents accidental damage
- Blind-mating enables usage in tight and hard to reach places
- RoHS compliant



## Specifications

Insulator Material	UL94V-0 Thermoplastic
Contact Material	Copper Alloy
Contact Plating	Gold
Current Rating	3 Amps
Contact Resistance	50 Milliohms maximum
Dielectric Withstanding Voltage	500 VAC/minute
Insulation Resistance	500 Megaohms minimum
Operating Temperature	-25°C to +80°C

## Example Part Number



### Rows/Diameter + No. Of Positions

#### Rectangular Connectors



#### Circular Connectors



\*\*\* Please see page 2 for options for rectangular connectors  
 \*\*\* Please see page 3 for options for circular connectors

### Rectangular Connectors

Series	Description		
MPM	Magnetic POGO Male Connectors		
MPF	Magnetic POGO Female Connectors		
Termination Type	Description		
V	Vertical Through Hole		
Pitch	Description		
A	2.20mm		
B	2.50mm		
C	2.80mm		
Row Spacing	Description		
0	Not Applicable		
Rows + No. of Positions	Description	Number of Positions	Description
1	Single Row	02-09	Min 02 Positions ~ Max. 09 Positions
Plating	Description		
2	Gold Plating 5µ"		
Contact Position	Description		
P	Protruding From Mating Surface		
R	Recessed From Mating Surface		
Mating Pair Code	Description		
XX	Assigned by EDAC. Components with same mating pair code mate with each other.		
Variation Code	Description		
(-)	Standard Part		
S	Variation of Standard Part Not Affecting Form/Fit/Function (Note 1)		
V	Variation of Standard Part Affecting Form/Fit/Function (Note 1)		
Alignment Options with PCB	Description		
A	None		
Tail Length	Description		
0	Standard Tail Length (Refer to drawings for length)		
1	Long Tail Length (Refer to drawings for length) (Note 2)		

#### Ordering Notes:

1. Last three digits do not follow the standard part naming system if "S" or "V" is used. Contact EDAC for more information.
2. Applicable only to MPF Series in pitches 2.20mm and 2.80mm.

### Circular Connectors

Series	Description		
MPM	Magnetic POGO Male Connectors		
MPF	Magnetic POGO Female Connectors		
Termination Type	Description		
V	Vertical Through Hole		
Pitch	Description		
0	Not Applicable		
Row Spacing	Description		
0	Not Applicable		
Diameter + No. Of Positions	Description	Number of Positions	Description
X+Y	Refer to Table 1 and 2 for diameter dimension	2	2 Positions
Plating	Description		
2	Gold Plating 5µ"		
5	Gold Plating 20µ"		
Contact Position	Description		
P	Protruding From Mating Surface		
R	Recessed From Mating Surface		
Mating Pair Code	Description		
XX	Assigned by EDAC. Components with same mating pair code mate with each other.		
Variation Code	Description		
( )	Standard Part		
S	Variation of Standard Part Not Affecting Form/Fit/Function (Note 1)		
V	Variation of Standard Part Affecting Form/Fit/Function (Note 1)		
Alignment Options with PCB	Description		
A	None		
E	Grounding Tabs		
Tail Length	Description		
0	Standard Tail Length (Refer to drawings for length)		
1	Long Tail Length (Refer to drawings for length) (Note 2)		

#### Ordering Notes:

1. Last three digits do not follow the standard part naming system if "S" or "V" is used. Contact EDAC for more information.
2. Applicable only for MPF Series for 5.6mm and 12.5mm diameter.

## Circular Connectors Diameter Dimensions

### Table 1

Dimensions 0.0mm to 9.9mm (X+Y)			
X Code	Whole No.	Y Code	Decimal
0	0	0	0.0
1	1	1	0.1
2	2	2	0.2
3	3	3	0.3
4	4	4	0.4
5	5	5	0.5
6	6	6	0.6
7	7	7	0.7
8	8	8	0.8
9	9	9	0.9

Table 1 Code Selection Examples					
Dimension Value (mm)			Part Numbering Code		
Value	Whole No.	Decimal	X Code	Y Code	X+Y
0.5	0	0.5	0	5	05
5.8	5	0.8	5	8	58
8.0	8	0.0	8	0	80
9.9	9	0.9	9	9	99

### Table 2

Dimensions 10.0mm to 29.9mm (X+Y)			
X Code	Whole No.	Y Code	Decimal
0	10	A	0.0
1	12	B	0.1
2	14	C	0.2
3	16	D	0.3
4	18	E	0.4
5	20	F	0.5
6	22	G	0.6
7	24	H	0.7
8	26	J	0.8
9	28	K	0.9
		L	1
		M	1.1
		N	1.2
		P	1.3
		Q	1.4
		R	1.5
		S	1.6
		T	1.7
		U	1.8
		V	1.9

Table 2 Code Selection Examples					
Dimension Value (mm)			Part Numbering Code		
Value	Whole No.	Decimal	X Code	Y Code	X+Y
10.0	10	0.0	0	A	0A
14.6	14	0.6	2	G	2G
19.8	18	1.8	4	U	4U
24.2	24	0.2	7	C	7C
25.5	24	1.5	7	R	7R
29.9	28	1.9	9	V	9V