



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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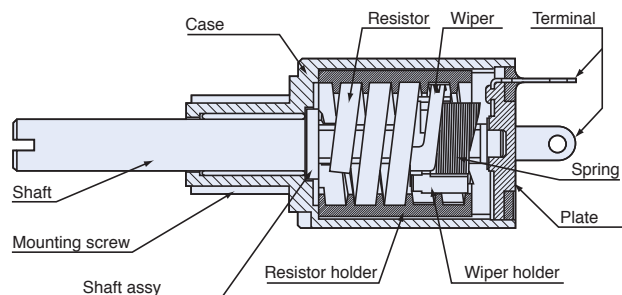
CONDUCTIVE PLASTIC 3 TURNS TYPE

MC series

RoHS compliant



Basic construction



Conductive plastic 3 turns type

FEATURES

- Compact size
- Fine setting is possible
- Long life
- High following characteristics
- High resolution (Essentially infinite)
- RoHS compliant

PART NUMBER DESIGNATION

MC1003 - 000 - 502

Series name

Nominal resistance value (Ω)

502 : 5 k
103 : 10 k
203 : 20 k

LIST OF PART NUMBERS

Nominal resistance value (Ω)	Part number
5 k	MC1003-000-502
10 k	MC1003-000-103
20 k	➔ MC1003-000-203

※ Verify the above part numbers when placing orders.

The products indicated by ➔ mark are manufactured upon receipt of order basis.

MC POTENTIOMETERS

STANDARD SPECIFICATIONS

Electrical characteristics

Nominal resistance value	5 k Ω , 10 k Ω , 20 k Ω
Resistance tolerance	$\pm 20\%$
Resolution	Essentially infinite
Power rating	0.19 W
Independent linearity	$\pm 1\%$
Effective electrical angle	1080°
Temp. coefficient of resistance	± 400 ppm/°C maximum
Insulation resistance	1000 M Ω (at DC250 V) minimum
Dielectric strength	500 V rms (1 min)

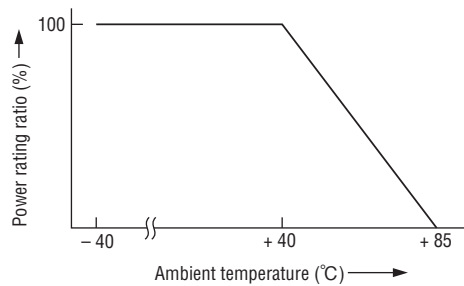
Mechanical characteristics

Mechanical angle	1080° $\pm 10^\circ$
Stop strength	4.41 N·cm {0.45 kgf·cm} maximum
Operating torque	0.294 N·cm {30 gf·cm} maximum
Rotational life	1 million cycles
Tighten screw torque	49 N·cm {5 kgf·cm} maximum

Environmental characteristics

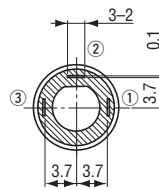
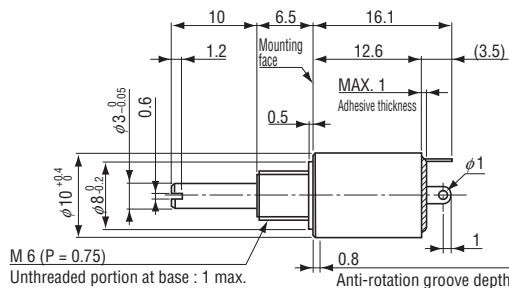
Operating temp. range	-40 ~ 85 °C
Net weight	Approx. 2.5 g
Protection grade	IP40

RATED POWER DERATING CURVE

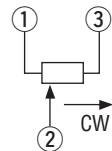


OUTLINE DIMENSIONS

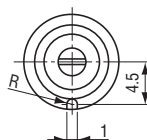
(Unit: mm)



Wiring diagram



Anti-rotation details



<Accessories>

