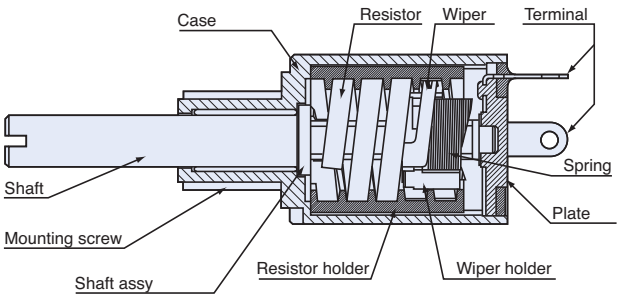
CONDUCTIVE PLASTIC 3 TURNS TYPE

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 kΩ, 10 kΩ, 20 kΩ
Resistance torelance	± 20 %
Resolution	Essentially infinite
Power rating	0.19 W
Independent linearity	± 1 %
Effective electrical angle	1080°
Temp. coefficient of resistance	± 400 ppm/°C maximum
Insulation resistance	1000 MΩ (at DC250 V) minimum
Dielectric strength	500 V rms (1 min)

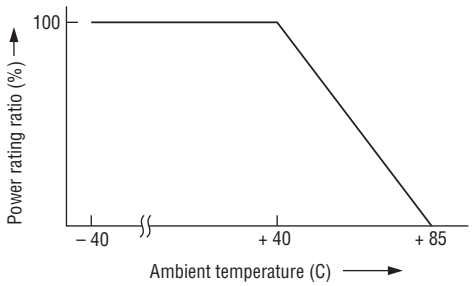
● Mechanical characteristics

Mechanical angle	1080° ± 10°
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

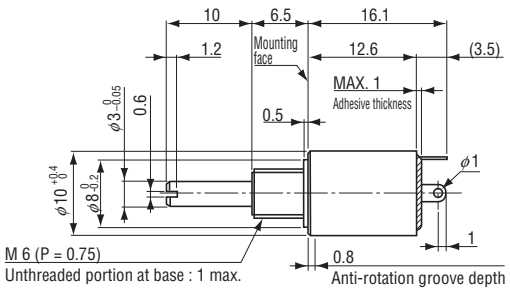
Operating temp. range	–40 ~ 85 °C
Net weight	Approx. 2.5 g
Protection grade	IP40

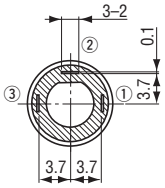
■ RATED POWER DERATING CURVE



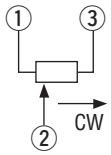
■ OUTLINE DIMENSIONS

(Unit: mm)

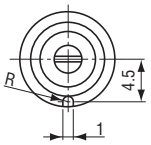




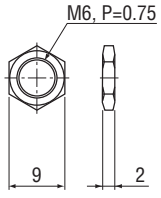
Wiring diagram



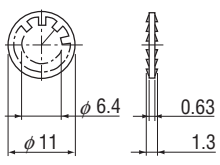
Anti-rotation details



＜Accessories＞



1. Nut



2. Washer