

# CP2500MC (Attenuator)

# ATTENUATOR

## Conductive Plastic

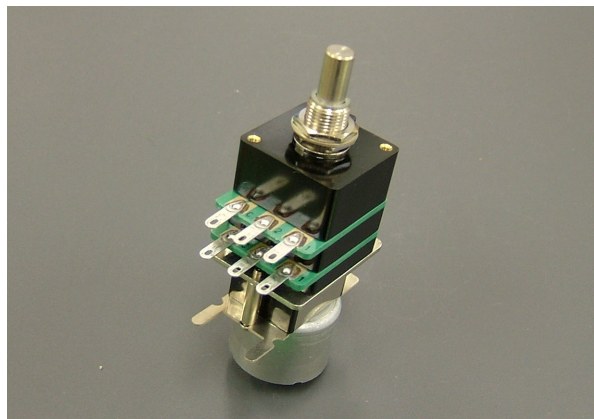
Low rotational noise level

## Motorized

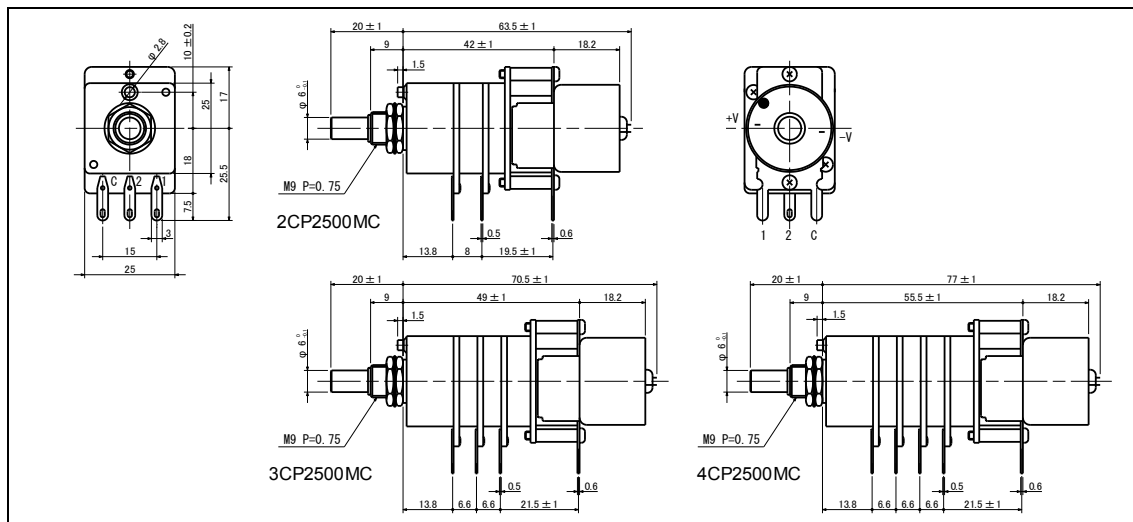
With DC-motor

## Small size

25mm square



## Dimensions



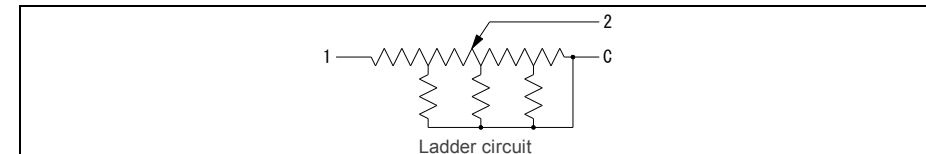
**Output Law** Load: High impedance (More than 20 times of total resistance.)

Degrees (CW-CCW)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300
Attenuation [dB]	0	2	4	6	8	10	12	14	16	18	20	22	24	27	30	33	37	42	48	58	Cut off

## Model number

**2** **CP2500MC** - **10K**  
 Number of circuit (2~4) Product type Total resistance

## Circuit method



## Electrical specifications

CP2500MC	
Circuit (Unbalanced)	Ladder circuit
Attenuation direction	CCW (Large attenuation & cut off) - CW (Small attenuation)
Total resistance (1-C)	10k, 20k, 50k, 100kohm
Total resistance tolerance	±20%
Attenuation accuracy	0~10dB: ±1.0dB, ~30dB: ±2.0dB, ~42dB: ±3.0dB
Matching accuracy	0~10dB: 1.0dB, ~30dB: 1.5dB, ~42dB: 2.5dB
Insertion loss	0.5dB or less
Cut off (15Hz)	85dB Min.
Voltage proof	1 Min. at AC500V
Insulation resistance	50Mohm or more at DC500V
Max rating	DC20V (0.1W)
Rotational noise level	47mV or less (by JIS C 6443)
Rotational life	100,000 Cycles Min. (18cycles/min, Sliding noise level: Less than 100mV)

## Mechanical specifications

CP2500MC	
Operating angle	300 degrees ±5 degrees
Strength of Nut-Attached	50Ncm
Attached Parts	Hexagonal nut (M9)
Stopper strength	50Ncm
Push-pull strength	50N

## Motor specifications

CP2500MC	
Rotational torque	1~4.5Ncm
Voltage	DC4~6V (DC4.5V standard)
Rotational speed	12±3 sec./300deg. (at DC4.5V)
Max. operating current	100mA Max. (at rotation), 150mA Max. (at end slip)
Insulation resistance	1Mohm Min. at DC100V

## General specifications

CP2500MC	
Temp. range	-10 to +70 degrees C (Operating), -15 to +75 degrees C (Storage)
Relative humidity	90%RH (No condensation)

## Note

- \* This product is constructed by a ladder circuit. Cannot use it for a rheostat use (a use to change a resistance level).
- \* Solder heat resistance: 350degrees C max, 5sec max, to 2 times. (Manual soldering only)
- \* Special order of the shaft length is possible. Please contact us for details.