

PRODUCT SPECIFICATON

1. General

This specification applies to coin permanent magnetic motors MB1027

Operating condition

Item		Specification
2-1	Rated voltage Operating voltage Rotation Operating environment Storage environment	3.0V DC
2-2		2.3~3.3V DC
2-3		CM(clockwise) or CCW(Contrary clockwise)
2-4		-20~+60℃, Ordinary Humidity
2-5		-30~+70℃, Ordinary Humidity

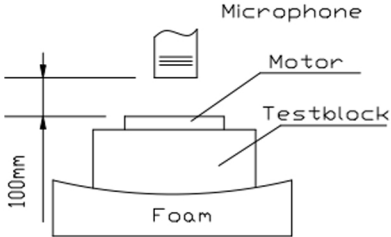
2. Measuring condition

Item		Specification
3-1	Temperature Humidity Air pressure Current	25±3℃
3-2		62±20% RH
3-3		1011±40 hPa
3-4		Stabilized current

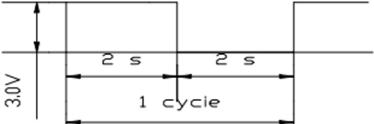
3. Electrical initial characteristics

Item		Specification	Condition
4-1	Rated speed Rated current Starting current	11000±2500rpm min	At rated voltage
4-2		80mA Max	
4-3		120mA Max	
4-4	Starting voltage	2.3V DC Max	Motor is rotating at min starting voltage
4-5	Insulation resistance	10MΩ Min	At DC 100Vbetween lead wire and case.
4-6	Terminal resistance	32Ω±15%(sigle posture) 58Ω±15%(double posture)	At 25℃

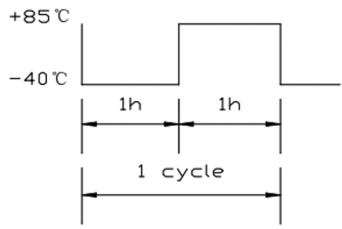
5. Mechanical characteristics

Item		Specification
5-1	Bracket deflection strength	9. 8N or more
5-2	Mechanical noise	50dB(A) Max
	At rated voltage Back ground noise 28dB(A) Max	

6. Durability characteristics

Item		Specification	Judgment
6-1	Life	 Test cycle: 50,000 cycles	After the test ,motors shall be approved as specified in item 7-1.

Item		Specification	Judgment
6-2	Low temp exposure	Temperature :-30 Time :96h	After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item7-2.
6-3	High temp Exposure	T Temperature :+70 Time :96h	
6-4	Humidity exposure	Temperature :+40 Humidity :95%RH Exposure time :96h NO condensation of moisture	
6-5	Vibration	Displacement :1.5mm (p-p) Frequency:10~54Hz Acceleration :22m/s Period:10min (10~55~10Hz) 10 Minutes log sweep(10~55~10Hz) This motion shall be applied for a period of 10 minutes in each of 3 mutuallyperpend axis	After the test motors shall be approved in item7-2.
6-6	Free fall	Set the motor to the approximately 100g(include the motor) Weight of block drop the motor on the concrete floor. Height :1.5m Direction :±x. ±v ±z. Number of times:Each 3 times Shock:29420m/s Equivalent (3000G)	After the test motors shall be approved as specified in item7-2.

6-7	Heat stock test		After the test motors shall be approved as specified in item7-2
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7.

Item		Judgment	
7-1	Table A	1. Rated speed : data+30% Initial Min : data+50% Initial Max 2. Rated current :data+30% Initial Min :data+50% Initial Max 3. Starting voltage: 2. 5V DC Max 4. Insulation resistance : 10M Ω Min 5. Terminal resistance: Initial data±15% Max	
7-2	Table B	1. Rated speed : Initial data±20% Max 2. Rated current : Initial data±20% Max 2. Starting voltage: 2. 5V DC Max 3. Terminal resistance: Initial data±15% Max	

8. Matters to be paid attention to when using motor

8-1 Please apply motors in accordance with specifications, especially aware of ranges of operation voltage, or its performance and life durability may be considerably reduced.

8-2 Advice use this motor within 6 months as avoiding as possible

Avoid use or save the motors in the following environment.

1. High temperature and high humidity area
2. Corrosive gas such as H_2S , SO_2 , NO_2 , Cl_2 ,
3. Dusty area

8-3 Please pay much attention to the working environment to avoid iron sundries from being sucked in. The motors, possible to trigger noise, reduce performance, and decrease reliability.

8-4 Please confirm enough no problem of standards and laws and ordinances on your cellular.

8-5 To handle the motor, hold the motor case softly

8-6 Rust of plate (steel) and similar edge should be OK.

