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Model name: GS-2702



CUSTOMER ACCEPTANCE	APPROVAL	CHECK	DESIGN	DATE
	Raisa. L	Simon. Z	Tony.L	2012-11-13

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Prolegomenon

1、Specification Receival:

Please return this specification within one month since its publication otherwise it will be treated as signed and received articles additionally, if any regarding this spec. need to be adjusted or added for your esteemed company, please kindly contact our business executor.

2. Specification revises :

The revises of this spec. and its execution will be in our discussion and negotiation.

If our spec. is revised, this spec. will be invalid as soon as you receive the revised one.

- 3、Special Notes:
 - (1) Please check its performance advance while you start.
 - (2) Specially declare, some parts of components can be changed in order to modify or improve its capacity.

Revised Record

Rev.	Date	Designed	Revised	Page
V1.0	2010.04.20	Tony.L	Preliminary spec. Written	
V1.1	2012.11.13	Tony.L	Change the noise specification	3



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1. Applications

This specification can apply to model GS-2702 DC core vibration motor, provided by AWA, to be used for cellular phone and other handy communication tools.

2. Standard Operating conditions

No	Item	Specifications
2-1	Rated voltage	2.7V
2-2	Operating voltage range	2.3-3.2V
2-3	Motor position	All position
2-4	Rated Load	Counterweight (R1.7*L2.8)
2-5	Rotation	CW
2-6	Operating environment	-20℃ [~] +70℃(0 [~] 95%RH)
2-7	Storage environment	-40℃~+85℃(0~95%RH)

3. Measuring conditions

No	Item	Specifications
3-1	Normal temperature	20 ℃ ±2 ℃
3-2	Normal humidity	65±5%
3-3	Temperature for reference	5 ℃ ~ 35 ℃
3-4	Humidity for reference	30% ~ 90%
3-5	Motor position when testing	Motor shaft horizontal

4. Mechanical characteristics

No	Item	Specifications	Conditions & Remarks
4-1	Appearance	Visual	No scar, rust, stain and dent
4-2	Weight	0.6g	
4-3	Pull-out strength of cw	3 Kg Min	
4-4	Axial play of shaft	0.3 mm MAX	
4-5	Vibration force (reference)	0.3G with 100g Jig	Under rated voltage and load
4-6	Rise time characteristics	0.2S MAX	Counterweight rotates by impression of standard voltage
		45dB MAX	Measure at rated voltage and rated load (counterweight), according to shaft direction the distance between microphone and motor is 10cm.
4-7	Mechanical noise	(Background noise: 25dB MAX)	10cm MOTOR Fix jig Noise level meter (JIS-A)

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5. Electrical characteristics

No	Item	Specifications
5-1	Rated voltage	2.7V
5-2	Rated current	65±10mA
5-3	Rated speed	14000±2500rpm
5-4	Starting current	90mA max
5-5	Starting voltage	2.3V max
5-6	Terminal resistance	33±6 Ω
5-7	Electrical Noise	Using ring Varistor
5-8	Insulation resistance	1M Ω Min Under 50V DC

6. Reliability test

6-1 Sample quantity:4 pcs Temperature:80 ℃ Duration:96hrs 6-1 temperature storage test Criterion: RPM and other parameters must be within spec defined. The measurement is conducted after 4hours of recovery after test. 6-2 Low temperature storage test Sample quantity:4 pcs Temperature:40℃ Duration:96hrs 6-3 Storage test Criterion: RPM and other parameters must be within spec defined. The measurement is conducted after 4hours of recovery after test. 6-3 Storage test Sample quantity: 4pcs Test conditions: Just as right sketch map 85 ℃ 90%RH 0℃ -40 ℃ 24h 6-3 Storage test Sample quantity: 4pcs Test conditions: Just as right sketch map 85 ℃ 90%RH 0℃ -40 ℃ 6-4 Drop test Sample quantity: 4 pcs Test conditions: Height: 150cm, with a 100g Jig 6-4 Drop test Floor: steel Drop cycles: ±X, ±Y, ±Z, every face 1 times Criterion: RPM and other parameters must be within spec defined. 6-5 Lift test Sample quantity: 10pcs each type Test condition: 8 on/ 52s off every cycle Test environmental: (A)Temperature 60℃/Humidity 20%RH, (B)Just as below Duration: Condition (A) for 48 hours, (B) for 140 hours 6-5 Lift test Criterion: The deviation of RPM must be within +30%/-20% and rotate current within +20%/-30% of their initial value. Other parameters must be within spec defined.	No	ltem	Specifications
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7. Lot manage



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8-3 Final Packing Condition

Double wall corrugated cardboard (external dimension)



9. Cautions

9-1 Whatever item not stated in this specification will not be guaranteed.

- 9-2 Do not subject the motor under locked condition for a long time.
- 9-3 Out-going test data will be attached (n ~ 35) for :

Loaded rotation Loaded current

Lock current

Starting voltage

Wiring resistance

9-4 The product can compliant with AWA requirement of HS management completely.

- 9-5 The inspection after reflow is implemented in production process.
- 9-6 Recommending reflow profile for Pb-free soldering.

Rate of temperature rise:2~4°C/sec

. Peak temperature maximum 260°C/5sec

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SHANGHAI AWA SEIMITSU ELECTRIC CO., LTD