


GODO ELECTRONICS Co.,Ltd

DATA SHEET

Product category - Vibration motor
Motor type- Coreless motor
Model no : GE0407-BCSR01

Main dimensions : Diameter 4mm body length 8.7mm

• High Reliability • Long Lifetime • Low Noise • Precision Performance

Scope

These specification are applied to GE0407-BCSR01 vibration motors to be used for haptic applications
Manufactured in GODO electronics Co.,Ltd.

Standard Operating Conditions

No.	ITEM	Specification
1	Rated voltage	DC 3.0V
2	Direction of rotation	CW/CCW(Both direction)
3	Operating voltage range	DC 2.4V~3.6V
4	Operating temperature range	-20℃ ~ +60℃
5	Storage temperature range	-30℃ ~ +70℃

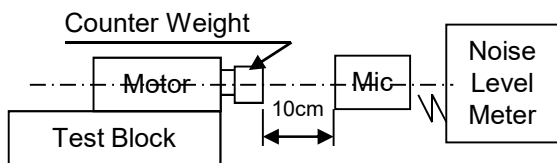
Construction form

No.	ITEM	Specification
1	Motor Construction	Ø4 cylindrical DC coreless motor
2	Number of phases	3-phases (△ - Connection)
3	Number of magnet poles	2 – poles (Inner magnet type)
4	Rectifying method	Precious brush and commutator

Electrical Characteristics

No.	ITEM	Specification	Measuring condition
1	Rated speed	12,000 ± 3,000 rpm	Measuring at rated voltage
2	Rated current	90 mA Max	Measuring at rated voltage
3	Locked current	120 mA Max	Measuring at rated voltage
4	Starting voltage	2.4V Max	Minimum voltage for starting
5	Terminal resistance(Ref.)	30Ω ± 20%	Measuring between terminals

Mechanical Characteristics

No.	ITEM	Specification	Measuring condition
1	C/Weight pull strength	3kg min.	Shaft axial direction
2	Shaft pull strength	3kg min.	Shaft axial direction
3	Shaft end play	0.3mm Max	Distance of axial play on shaft
4	Mechanical noise	50dB(A) Max	Back ground noise : 23dB(A) Max
			

Haptic Characteristics – Reference Specification

No.	ITEM	Specification	Condition
1	Rising time	40~50mS	50% of Maximum Acceleration
2	Falling time	40~50mS	50% of Maximum Acceleration

Cautions

Allowance range for use

Unless it is used in accordance with the specifications, the performance and life may be considerably reduced. Due attention should be paid to voltage and current ranges for use.

Storage

Avoid storing in high temperature, high humidity or corrosive gas environment.

