Model:

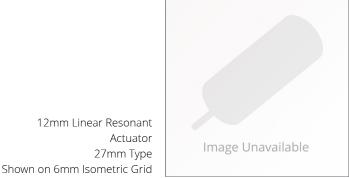


Model No. C27-001

Product Data Sheet

C27-001

Range: 12mm Linear Resonant Title: 12mm Linear Resonant Actuator Actuator Type: Undefined 27mm Type



KEY FEATURES	
Body Diameter	12 mm [+/- 0.1]
Body Length	27 mm [+/- 0.1]
Rated Voltage (RMS)	2.6 V
Rated Vibration Frequency	140 Hz
Typical Rated Operating Current	110 mA
Typical Norm. Amplitude	8.13 G

TYPICAL DC MOTOR PERFORMANCE CHARACTERISTICS

Performance Graph Currently Unavailable

ORDERING INFORMATION

The model number fully defines the model, variant and additional features of the product. Please quote this number when ordering. For stocked types, testing and evaluation samples can be ordered directly through our online store.

FIND OUT HOW THIS PART COULD MEET YOUR SPECIFICATIONS

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DESIGN FOR APPLICATION CASE STUDIES



ENCAPSULATED VIBRATION MOTOR FOR A CPR TRAINING **DUMMY**

- Low volume, high value manufacturing
- Custom CNC machined enclosure
- Optimised haptic performance
- Custom PCB including EMI filters
- Part no. 334-401.001



VIBRATION MOTOR HIGHLY OPTIMISED FOR **RUGGEDISED FIRE AND** POLICE EMERGENCY **RADIOS**

- High volume production
- Optimised for emergency services application
- Ruggedised design with custom rubber 'suspension' cover
- Custom PCB with spring legs for simplified production assembly times
- Part no. 308-104.001



PRECISION SPEED AND TORQUE CONTROLLED **SERVO WITH INTEGRATED** TUNABLE PID LOOP FOR SINGLE-USE SCIENTIFIC INSTRUMENT.

- Medium volume, high value assembly
- Proprietary PID controller converts cost-effective motor design into a precision servo
- Adapted control software including digital IO (to customer's specification)
- Part no. 132-100.001



CUSTOMISED PRECISION GEAR MOTOR WITH ROBUST **OPTICAL ENCODER**

- High volume production
- Application specific output shaft
- Tailored motor performance curves
- Rear motor shaft with noise resistant optical encoder
- Part no. 212-116.001



PHYSICAL SPECIFICATION

PARAMETER	CONDITIONS	SPECIFICATION
Body Diameter	Max body diameter or max face dimension where non-circular	12 mm [+/- 0.1]
Body Length	Excl. shafts, leads and terminals	27 mm [+/- 0.1]
Unit Weight		13 g

LEADS & CONNECTORS SPECIFICATION

PARAMETER	CONDITIONS	SPECIFICATION
Lead Length	Lead lengths defined as total length or between motor and connector	150 mm [+/- 3]
Lead Strip Length		1.5 mm [+/- 0.5]
Lead Wire Gauge		32 AWG
Lead Configuration		Straight

OPERATIONAL SPECIFICATION

PARAMETER	CONDITIONS	SPECIFICATION
Rated Voltage (RMS)		2.6 V
Rated Vibration Frequency		140 Hz
Max. Rated Operating Current	At rated voltage using the inertial test load	148 mA
Max. Start Voltage	Certified starting voltage. Measured at no load, where applicable	0.37 V
Rated Inertial Test Load	Mass of rated load standard test sled	100 g
Max. Operating Voltage		2.65 V
Min. Vibration Amplitude	Peak-to-peak value at rated voltage using the inertial test load	4.88 G
Resonant Frequency		144 Hz [+/- 6]

Important: The characteristics of the motor is the typical operating parameters of the product. The data herein offers design guidance information only and supplied batches are validated for conformity against the specifications on the previous page.

TYPICAL PERFORMANCE CHARACTERISTICS

PARAMETER	CONDITIONS	SPECIFICATION
Typical Rated Operating Current	At rated voltage using the inertial test load	110 mA
Typical Vibration Amplitude	Peak-to-peak value at rated voltage using the inertial test load	8.13 G
Typical Vibration Efficiency	At rated voltage using the inertial test load	28.42 G/W
Typical Norm. Amplitude	Peak-to-peak vibration amplitude normalised by the inertial test load at rated voltage	8.13 G
Typical Start Voltage	Measured at no load, where applicable	0.07 V

FIND OUT HOW THIS PART COULD MEET YOUR SPECIFICATIONS

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TYPICAL HAPTIC CHARACTERISTICS

PARAMETER	CONDITIONS	SPECIFICATION
Typical Lag Time	At rated voltage using the inertial test load	8 ms
Typical Rise Time	At rated voltage using the inertial test load	21 ms

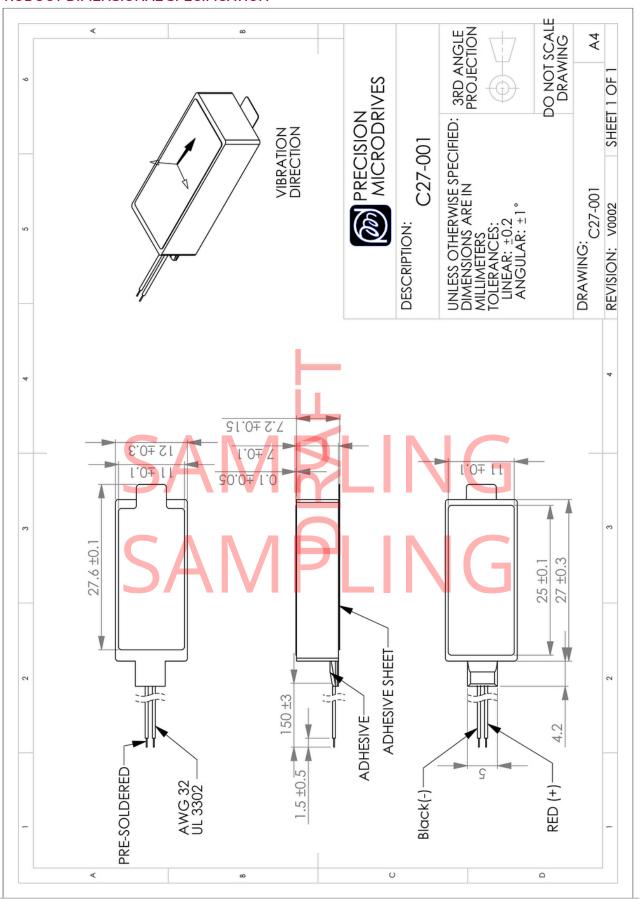
SAMPLING SAMPLING

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PRODUCT DIMENSIONAL SPECIFICATION



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Phone: +44 (0) 1932 252482

Please quote the full part number when ordering or making an enquiry. Some products can be ordered in smaller volumes directly from our website: www.precisionmicrodrives.com

DATASHEET REVISION AND VERSION NUMBERING

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 - 1.2. support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user or a third party.
- 2. A critical component is any component of a life support device or any other system or machine whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

BATCH NUMBERING, MANUFACTURING, TRACEABILITY AND LABELLING

Every part of manufactured by Precision Microdrives is at minimum identified and traced via a batch number. Where physically practical, we try to make each part with a batch number. In addition, some parts carry a lot code or barcode serial numbers. If traceability is a core requirement for your purchase, let us know and we'll outline the production options for you.

STANDARD QUALITY CONTROLS AND ISO 9001

Precision quality control is one of our 3 key competitive advantages. All motors that we produce undergo 100% line inspection followed by strict and detailed batch sample testing in accordance with ISO 2859. All of the processes operated at Precision Microdrives are managed within our ISO 9001 quality system.



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