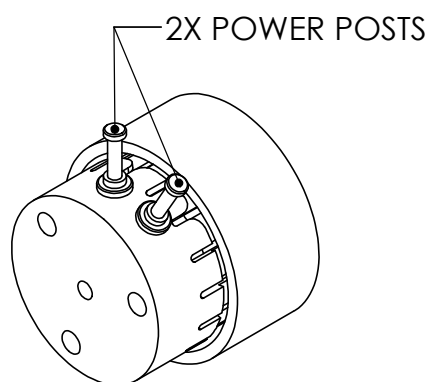
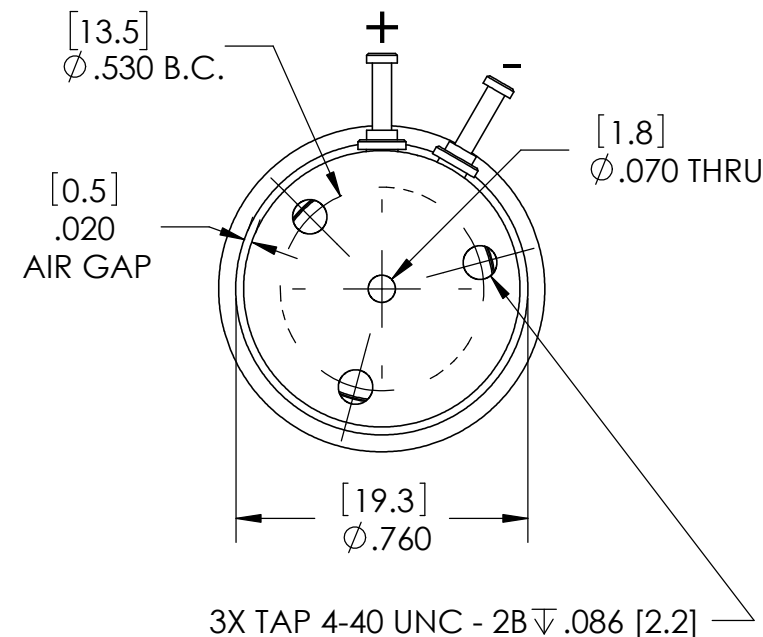
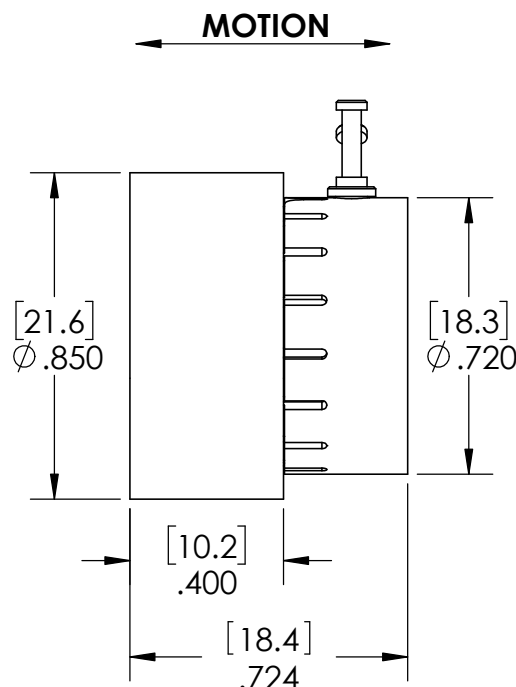
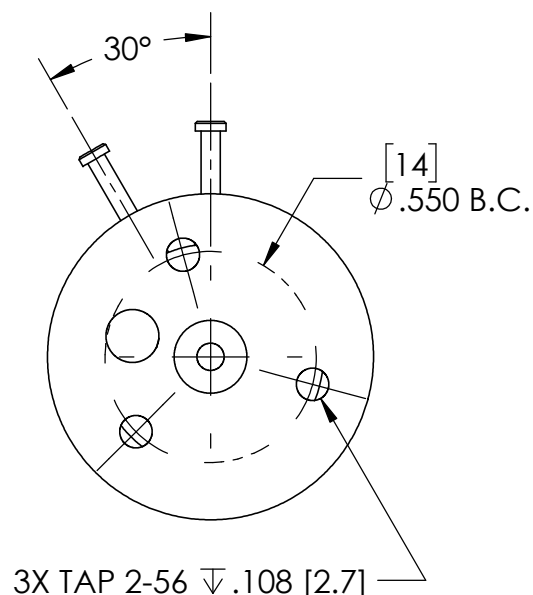


# ACTUATOR SHOWN FULLY RETRACTED

| REVISION TABLE |      |                  |        |          |        |
|----------------|------|------------------|--------|----------|--------|
| REV            | ECN# | DESCRIPTION      | REV BY | APPROVED | DATE   |
| ---            | ---  | Original Drawing | JRM    | MPW      | 9-1-09 |



**H2W Technologies, Inc.**  
Santa Clarita, CA 91350 USA  
Tel: (661) 291-1620  
[www.h2wtech.com](http://www.h2wtech.com)

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UNLESS SPECIFIED OTHERWISE:  
All dimensions are in inches  
Standard Tolerances are as follows  
.XXX ±.005 ANGLES ±1°  
.XX ±.010 FILLETS .010  
.X ±.020 CORNERS .010  
Remove All Burrs and Sharp Edges

**FOR  
REFERENCE  
ONLY**

MATERIAL

FINISH

TITLE

**Voice Coil Actuator  
Model #: NCC01-09-001-1S**

DWG # **30-0919**

REV

DATE

9-1-09

SHEET

1 of 2

1

2

3

4

5

A

A

B

B

C

C

D

D

| MOVING COIL NON-COMM ACTUATOR SPECIFICATIONS |                     |                   |
|----------------------------------------------|---------------------|-------------------|
| Motor P/N                                    | NCC01-09-001-1S     |                   |
| Stroke                                       | 0.09"               | 3.0 mm            |
| Radial Clearance                             | 0.030" per side     | 0.76 mm per side  |
| Bearing Type                                 | None Provided       |                   |
| Moving Mass                                  | 0.11 oz             | 3.0 grams         |
| Total Mass                                   | 0.53 oz             | 15.0 grams        |
| Resistance @ 20C                             | 20 ohms             |                   |
| Inductance @ 20C                             | 1.7 mH              |                   |
| Electrical Time Constant                     | 0.09 msec           |                   |
| Motor Constant                               | 0.11 LBS/SQRT(Watt) | 0.47 N/SQRT(Watt) |
| Force Constant                               | 0.48 LBS/Amp        | 2.10 N/Amp        |
| Back EMF                                     | 0.05 V/ips          | 2.10 V/m/sec      |
| Continuous Force                             | 0.11 LBS            | 0.49 N            |
| Max Power @ 100% Duty                        | 1.1 Watts           |                   |
| Peak Force                                   | 0.33 LBS            | 1.47 N            |
| Max Power @ 10% Duty                         | 10.3 Watts          |                   |



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2 of 2