

ACTUATOR SHOWN FULLY RETRACTED

REVISION TABLE				
REV	ECN#	DESCRIPTION	REV BY	APPROVED
B	---	----	JRM	MPW
			DATE	
			4-22-03	

MOTION

Magnet Assembly

Coil Assembly

[11.1]
Ø.438

Motion
(out of magnetic field assembly)
when connected as shown in the
view on the right

4-40 UNC TAP ∇.125 [3.2]

4-40 UNC TAP ∇.125 [3.2]

1/16" OD Brass Dowel Pins
(connect power leads to pins)

[9.0]
.355
[12.7]
.500

[11.1]
Ø.438

A

A

B

B

C

C

D

D



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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 #: NCC01-04-001-1X**

DWG # **30-0205**

REV **B**

DATE 4-22-03 SHEET 1 of 2

1

2

3

4

5

MOVING COIL NON-COMM ACTUATOR SPECIFICATIONS

Motor P/N	NCC01-04-001-1X	
Stroke	0.125"	3.2 mm
Radial Clearance	0.010" per side	0.25 mm per side
Bearing Type	None Provided	
Moving Mass	0.04 oz	1.2 grams
Total Mass	0.20 oz	5.7 grams
Resistance @ 20C	1.5 ohms	
Inductance @ 20C	63 μ H	
Electrical Time Constant	42 μ sec	
Motor Constant	0.08 LBS/SQRT(Watt)	0.36 N/SQRT(Watt)
Force Constant	0.10 LBS/Amp	0.45 N/Amp
Back EMF	0.01 V/ips	0.45 V/m/sec
Continuous Force	0.06 LBS	0.27 N
Max Power @ 100% Duty	0.6 Watts	
Peak Force	0.18 LBS	0.80 N
Max Power @ 10% Duty	5.1 Watts	



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