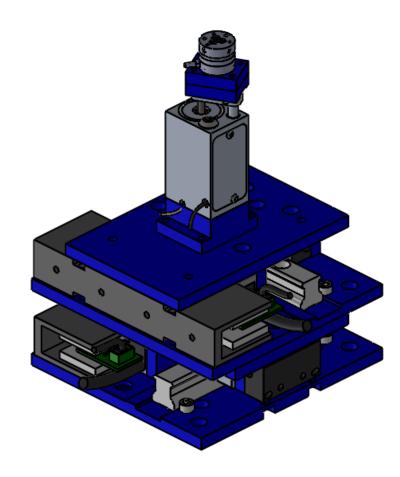
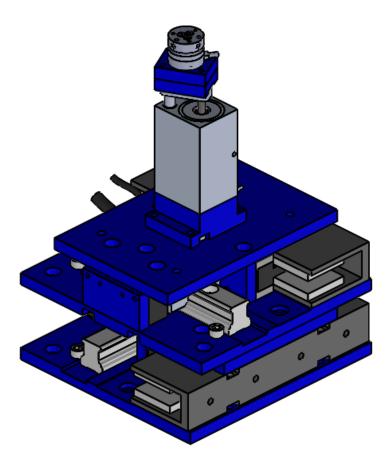


| <u> </u> | | | | | | | |
|---|---------------------|------------------|--|--|--|--|--|
| SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Top Axis) | | | | | | | |
| Motor P/N | BLDM-B02 | | | | | | |
| Stroke | 1.80" 45.7 mm | | | | | | |
| Encoder Resolution | 1 micron | | | | | | |
| Bearing Type | Linear Bearing | | | | | | |
| Moving Mass | 0.80 lbs | 0.36 Kg | | | | | |
| Total Mass | 3.0 lbs | 1.36 Kg | | | | | |
| Resistance @ 25C | 3.2 ohms | | | | | | |
| Inductance @ 25C | 15.9 mH | | | | | | |
| Electrical Time Constant | 1.0 msec | | | | | | |
| Motor Constant | 0.84 LBS/SQRT(Watt) | 3.7 N/SQRT(Watt) | | | | | |
| Force Constant | 1.48 LBS/A Peak | 6.57 N/A Peak | | | | | |
| Back EMF | 0.17 V/ips | 6.7 V/m/sec | | | | | |
| Force @ 100% Duty | 3.1 LBS | 13.8 N | | | | | |
| Power @ 100% Duty | 19.6 Watts | | | | | | |
| Current @ 100% Duty | 2.1 Amps | | | | | | |
| Force @ 10% Duty | 9.4 LBS | 41.8 N | | | | | |
| Power @ 10% Duty | 176 Watts | | | | | | |
| Current @ 10% Duty | 6.3 Amps | | | | | | |

| SINGLE RAIL POSITIONING STAGE SPECIFICATIONS (Bottom Axis) | | | | | |
|--|---------------------|------------------|--|--|--|
| Motor P/N | BLDM-B02 | | | | |
| Stroke | 1.80" 45.7 mm | | | | |
| Encoder Resolution | 1 micron | | | | |
| Bearing Type | Linear Bearing | | | | |
| Moving Mass | 0.80 lbs | 0.36 Kg | | | |
| Total Mass | 3.0 lbs | 1.36 Kg | | | |
| Resistance @ 25C | 3.2 ohms | | | | |
| Inductance @ 25C | 15.9 mH | | | | |
| Electrical Time Constant | 1.0 msec | | | | |
| Motor Constant | 0.84 LBS/SQRT(Watt) | 3.7 N/SQRT(Watt) | | | |
| Force Constant | 1.48 LBS/A Peak | 6.57 N/A Peak | | | |
| Back EMF | 0.17 V/ips | 6.7 V/m/sec | | | |
| Force @ 100% Duty | 3.1 LBS | 13.8 N | | | |
| Power @ 100% Duty | 19.6 Watts | | | | |
| Current @ 100% Duty | 2.1 Amps | | | | |
| Force @ 10% Duty | 9.4 LBS | 41.8 N | | | |
| Power @ 10% Duty | 176 Watts | | | | |
| Current @ 10% Duty | 6.3 Amps | | | | |

| VOICE COIL POSITIO | NING STAGE SPECIFICATION | ONS (Vertical Axis) | | |
|--------------------------|--------------------------|---------------------|--|--|
| Motor P/N | NCM06-08-008-2IB | | | |
| Stroke | 0.60" | 15.2 mm | | |
| Encoder Resolution | 1.0 micron | | | |
| Bearing Type | Sliding Contact | | | |
| Moving Mass | 0.05 lbs | 25 grams | | |
| Total Mass | 0.29 lbs | 135 grams | | |
| Resistance @ 20C | 1.5 ohms | | | |
| Inductance @ 20C | 0.3 mH | | | |
| Electrical Time Constant | 0.20 msec | | | |
| Motor Constant | 0.40 LBS/SQRT(Watt) | 1.78 N/SQRT(Watt) | | |
| Force Constant | 0.49 LBS/Amp | 2.18 N/Amp | | |
| Back EMF | 0.06 V/ips | 2.18 V/m/sec | | |
| Force @ 100% Duty | 1.12 LBS | 5.0 N | | |
| Power @ 100% Duty | 8 Watts | | | |
| Current @ 100% Duty | 2.2 Amps | | | |
| Force @ 10% Duty | 3.36 LBS | 15.0 N | | |
| Power @ 10% Duty | 73 Watts | | | |
| Current @ 10% Duty | 6.6 Amps | | | |





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NOTE:
1. ELECTRICAL SPECS & MASSES ARE PER INDIVIDUAL AXIS.

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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 | TITLE | | DWG# | 0-0464 |
|----------|-------|-----------------|-------------------|--------------|
| FINISH | | XYZ-Force Stage | REV | |
| | | | DATE 3-30-2020 | SHEET 3 of 3 |