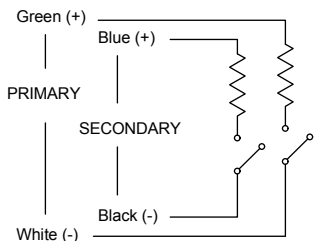
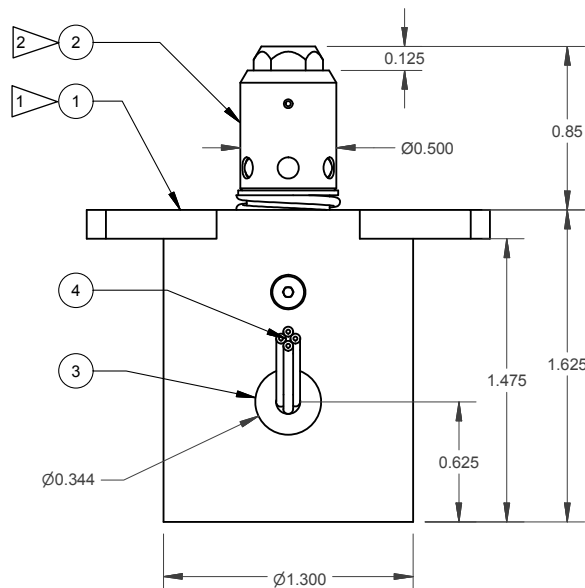
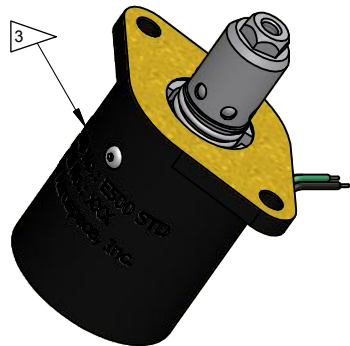
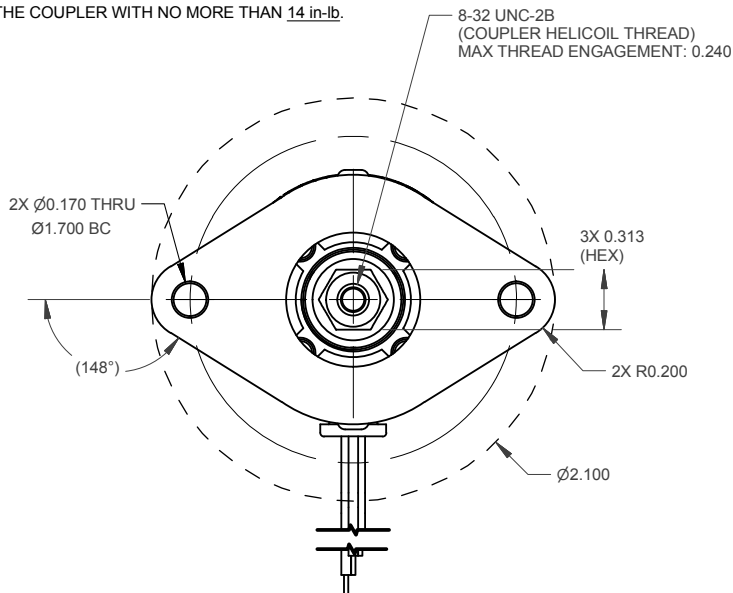


NOTES: UNLESS OTHERWISE SPECIFIED

1. MOUNTING FACE: GOLD ALODINE AS SHOWN PER MIL-C-5541 CLASS 1A.
ALL OTHER SURFACES: HARD BLACK ANODIZE PER MIL-A-8625F TYPE III, CLASS II, AND TEFLON COAT.
2. PASSIVATE PER ASTM A967
APPLY TIOLON X-40
3. IDENTIFICATION BLOCK ETCHED ONTO ENCLOSURE
4. RESET ERM PER TINI PROCEDURE F-1324, USING TINI RESET TOOL.
5. TORQUE DEPLOYABLE (STUD, BOLT) INTO THE COUPLER WITH NO MORE THAN 14 in-lb.



WIRING SCHEMATIC

ALL INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL TO TINI AEROSPACE INC. ("TAI") AND IS NOT TO BE REPRODUCED IN WHOLE OR PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT IS PROVIDED EXCEPT ON "TAI" ORDER OR "TAI" PRIOR WRITTEN CONSENT.

REVISION HISTORY		
REV	DESCRIPTION	DATE
B	PER DCO-3338	10/10/2011

ACTUATOR CHARACTERISTIC

MASS
NUMBER OF WIRE LEADS
CABLE LENGTH
ELECTRICAL:
POWER
OPERATIONAL CURRENT
RESISTANCE
PERFORMANCE:
MAX RELEASE LOAD
PROOF LOAD (NON-RELEASE)
MAX TORQUE
MAX MISALIGNMENT CAPABILITY
FUNCTION TIME
RE-USABLE
LIFE
TEMPERATURE:
NON-OPERATIONAL PRE-ACTUATION
OPERATIONAL
NON-OPERATIONAL POST ACTUATION
OTHER ENVIRONMENTS:
RANDOM VIBRATION (3 AXIS)

SPECIFICATION

3.6 oz [100 g]
4 TOTAL (2 PRIMARY + 2 SECONDARY)
18 in [457 mm] MIN
20 W @ 3.0 A
1.75 to 6.25 A
2.2 ± 0.3 Ω @ 23 °C
500 lbf [2224 N]
700 lbf [3114 N]
14 in-lb
± 5°
25 ± 5 ms. @ 4.0 A (23 °C)
BY MANUALLY RESETTING ACTUATOR
50 CYCLES MIN
-150 °C TO +70 °C
-65 °C TO +70 °C
-150 °C TO +150 °C
20.0 GRMS FOR 180s AS FOLLOWS:
FREQUENCY (Hz) PSD
20 0.052 g²/Hz
20-50 +6 dB/oct
50-800 0.32 g²/Hz
800-2000 -6 dB/oct
2000 0.052 g²/Hz

4	1	WI-1925	24AWG WIRE HARNESS	Ag/Cu, TEFZEL	MIL-W-22759/43
3	1	WI-1602	GROMMET	VITON	AMS 3216F
2	1	WI-2010	COUPLER	CUSTOM 455 SS	AMS 5617
1	1	WI-2005	ENCLOSURE	ALUM. 6061-T6	AMS-QQ-A-200/8
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	MTRL. SPEC.

Parts List

TiNi Aerospace, Inc
Innovative Mechanism Solutions

2505 KERNER BLVD.
SAN RAFAEL, CA. 94901
Tel 415-524-2124 Fax 415-524-2121

UNLESS OTHERWISE
SPECIFIED DIMENSIONS
ARE IN INCHES
TOLERANCES
.XX .XXX
±.03 ±.010 ±.5° 63/

INTERPRET DRAWING
PER ASME Y14.5M
THIRD ANGLE PROJECTION

DESIGNER: MHD

DRAWN:

REMOVE ALL BURRS

APPROVED:

SCALE: NOT TO SCALE

PROJECT:

REV: B

SHEET
1 OF 1

CREATED:
10/10/2011

TITLE:

ERM ACTUATOR ICD
MODEL: E500 STD

DWG# WI-2019