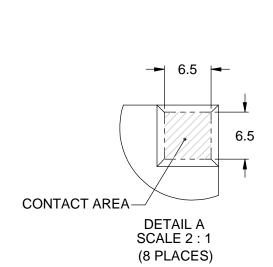# PUBLIC DOMAIN DOCUMENT - WITH RESTRICTIONS

THE CUBESAT KIT CONFORMS TO THE CUBESAT DIMENSIONAL SPECIFICATIONS IN THIS CONTROL DRAWING.
THIS DRAWING ITSELF IS DERIVED FROM THE ORIGINAL CUBESAT SPECIFICATION AVAILABLE AT www.cubesat.org
THIS DOCUMENT IS PROVIDED AS A SERVICE TO THE CUBESAT COMMUNITY.
THIS DOCUMENT MAY BE DISTRIBUTED ONLY IN UNALTERED FORM.
WEBMASTERS: LINKS TO THIS DOCUMENT AT www.cubesatkit.com/doc/cubesatcontroldrawing.pdf ARE PREFERED.
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REVISION HISTORY

REV	LOC	DESCRIPTION	DATE	APPV'D
B1	A6	CHANGED LENGTH OF BOTTOM "FEET" TO MATCH LENGTH OF TOP "FEET" -> RESULT IS LOSS OF 0.50mm OF MAIN BODY HEIGHT.	09/01/2003	AWR
B1	D3	ADDED SPRING PLUNGER CALLOUT	09/01/2003	AWR
B2	B4	ADDED SURFACE CALLOUT TO RAILS	09/26/2003	AWR

100.00
8.5 MIN (TYP)
8.5 MIN (TYP)
100.00
A
(141.42±0.14)
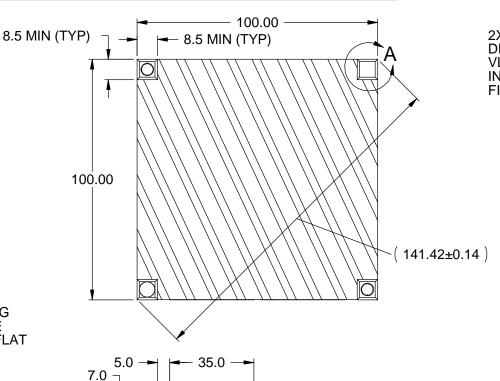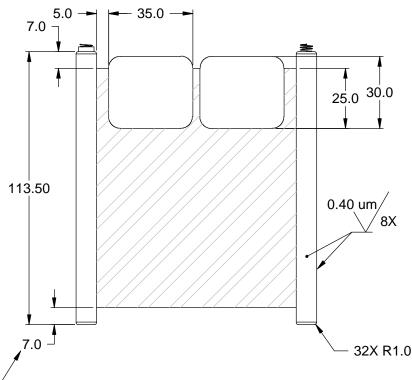
6.5
6.5
CONTACT AREA
DETAIL A
SCALE 2 : 1
(8 PLACES)

NOTE: NEIGHBORING SATELLITE SPRING AND SWITCH CONTACT AREAS MUST BE ACCOMMODATED WITH THE MINIMUM FLAT CONTACT AREA AS SHOWN IN DETAIL-A
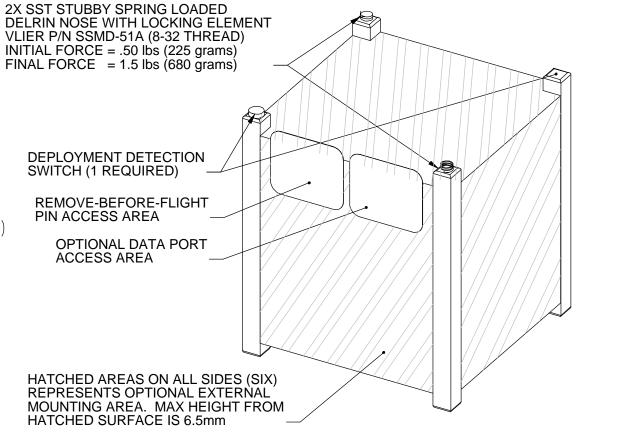
CubeSat NOTES:

1) REMOVE ALL BURRS AND BREAK SHARP EDGES

2) ROUND ALL EDGES (1mm SUGGESTED)

3) RAIL SURACES (8X) AND ENDS OF RAILS (8X) MUST BE ANODIZED (HARD ANODIZE IS PREFERRED) TO PREVENT COLD WELDING OF CUBESAT AND P-POD/LAUNCHER SURFACES

4) NO EXTERNAL OBJECTS ON CUBESAT MAY TOUCH INTERNAL SURFACES OF THE P-POD

5) MUST HAVE REMOVE BEFORE-FLIGHT PIN, OR LAUNCH WITH COMPLETELY DISCHARGED BATTERIES

6) FINAL LAUNCH WEIGHT: 1 KILOGRAM MAX. HEAVIER UNITS WILL INCURR EXTRA LAUNCH COSTS

7) CAL-POLY HAS FINAL DECISION ON ALL ALLOWABLE CUBESAT DESIGNS AND ANY DEVIATIONS MUST BE DISCUSSED WITH CAL-POLY LAUNCH PERSONNEL

NOTE THAT THE ORIGINAL CAL-POLY CUBESAT SPECIFICATION DRAWING SHOWS 6.5mm FOR THIS DIMENSION

5.0
35.0
7.0
25.0
30.0
113.50
0.40 um / 8X
7.0
32X R1.0

2X SST STUBBY SPRING LOADED
DELRIN NOSE WITH LOCKING ELEMENT
VLIER P/N SSMD-51A (8-32 THREAD)
INITIAL FORCE = .50 lbs (225 grams)
FINAL FORCE = 1.5 lbs (680 grams)

DEPLOYMENT DETECTION SWITCH (1 REQUIRED)

REMOVE-BEFORE-FLIGHT PIN ACCESS AREA

OPTIONAL DATA PORT ACCESS AREA

HATCHED AREAS ON ALL SIDES (SIX) REPRESENTS OPTIONAL EXTERNAL MOUNTING AREA. MAX HEIGHT FROM HATCHED SURFACE IS 6.5mm

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
	.X = ± .50	
	.X = ± .25	± 0 ° 30"
	.XX = ± .10	

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

APPROVALS		DATE
DRAWN	AWR	02/07/03
CHECKED	AWR	12/20/03
QUAL ENG	AWR	12/20/03

DO NOT SCALE DRAWING

TITLE
CubeSat, Control Document

SIZE **B** | DWG. **810-00252** | REV **B2**

SCALE 2 : 3 | SHEET 1 OF 1