



JUPITER AVIONICS
C O R P O R A T I O N

JA71-xxx

Dzus Blanking Plate



Installation Manual

Rev. A

Jupiter Avionics Corporation
1959 Kirschner Road
Kelowna BC
Canada V1Y 4N7
Tel: 778-478-2232
Toll-Free: 855-478-2232
www.jupiteravionics.com

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IMPORTANT:

Information in this document is subject to change without notice.

To confirm the current revision status of this manual, visit the JAC website:

www.jupiteravionics.com

[illegible]

Prepared:	Checked:	Approved:
MPB	 JAC 02-25-13 SRM	 JAC 02-25-13 KDV



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JA71-xxx Dzus Blanking Plate

SECTION 1 - DESCRIPTION

1.1 System Overview

The JA71 Dzus Blanking Plate allows the aircraft owner /operator to fill a void in a Dzus rail equipment rack with a compatible color and sized cover plate. The Dzus blanking plate reduces the amount of debris and dust entering the equipment rack.

1.2 Features Overview

The JA71 is painted with a baked-on urethane finish to resist scratches and nicks during use. The JA71 comes in 7 different heights ranging from 1 Dzus hole (JA71-xx1) to 7 Dzus holes (JA71-xx7). The rear side is milled out to accommodate switches or a printed circuit board. The design and color can match existing equipment to present a professional look and feel to the instrument panel.

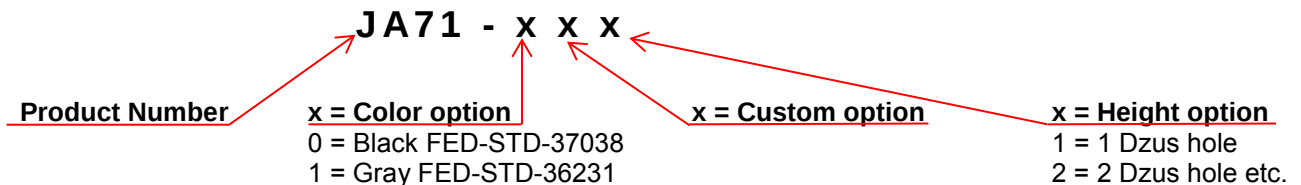
1.4 Specifications

1.4.1 Mechanical Specifications

	Height (Max)	Weight (Max)	Dzus Fasteners
JA71-x01	0.375 in (9.52 mm)	0.06 lbs (0.03 kg)	Two
JA71-x02	0.750 in (19.05 mm)	0.07 lbs (0.03 kg)	Two
JA71-x03	1.125 in (28.58 mm)	0.11 lbs (0.05 kg)	Two
JA71-x04	1.500 in (38.10 mm)	0.13 lbs (0.06 kg)	Two
JA71-x05	1.875 in (47.62 mm)	0.17 lbs (0.08 kg)	Four
JA71-x06	2.250 in (57.12 mm)	0.19 lbs (0.09 kg)	Four
JA71-x07	2.625 in (66.68 mm)	0.21 lbs (0.10 kg)	Four

All versions: Depth 0.32 in (8.1 mm) maximum
Width 5.75 in (146.1 mm) maximum
Material 6061-T6XX aluminum with flat urethane paint finish

1.4.2 Product Naming Convention



1.4.3 Environmental Specifications

The JA71-xxx Blanking Plate has been qualified to the environmental conditions listed below. Environmental categories for which performance has been qualified are listed in the [Environmental Qualification Form](#) in Appendix A of this manual.

Shock, Crash Safety 20 g for 11 ms
Vibration Cat SBM, Cat U2FF1
DO-160G Env. Cat. XXXB[(SBM)(U2FF1)]XXXXXXXXXXXXXXXXXXXX

JA71-xxx Dzus Blanking Plate

SECTION 2 – INSTALLATION

2.1 Introduction

This section contains unpacking and inspection procedures and installation information.

2.2 Continued Airworthiness

Maintenance of the JA95-001 is on condition only. Scheduled inspection and/or periodic maintenance of this unit is not required.

2.3 Unpacking and Inspecting Equipment

Unpack the equipment carefully. Check for shipping damage and report any problems to the relevant carrier. Confirm that the Authorized Release Certificate or Certificate of Conformance is included. Complete the on-line warranty card from the Jupiter Avionics Corporation (JAC) website – www.jupiteravionics.com.

2.3.1 Warranty

All products manufactured by JAC are warranted to be free of defects in workmanship or performance for 2 years from the date of installation by an approved JAC dealer or agency. This warranty covers the cost of all materials and labour to repair or replace the unit, but does not include the cost of transporting the defective unit to and from JAC or its designated warranty repair centre, or of removing and replacing the defective unit in the aircraft. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alteration or repairs.

Contact JAC for return authorization, and for any questions regarding this warranty and how it applies to your unit(s). JAC is the final arbiter concerning warranty issues.

2.4 Installation Procedures

2.4.1 Mechanical Installation

The JA71-xxx can be mounted in any attitude and location. Ensure all Dzus fasteners are secured.

2.6 Installation Kit

N/A

2.7 Installation Drawings

The drawings and documents required for installation can be found in [Appendix A](#) of this manual.

Installation Manual

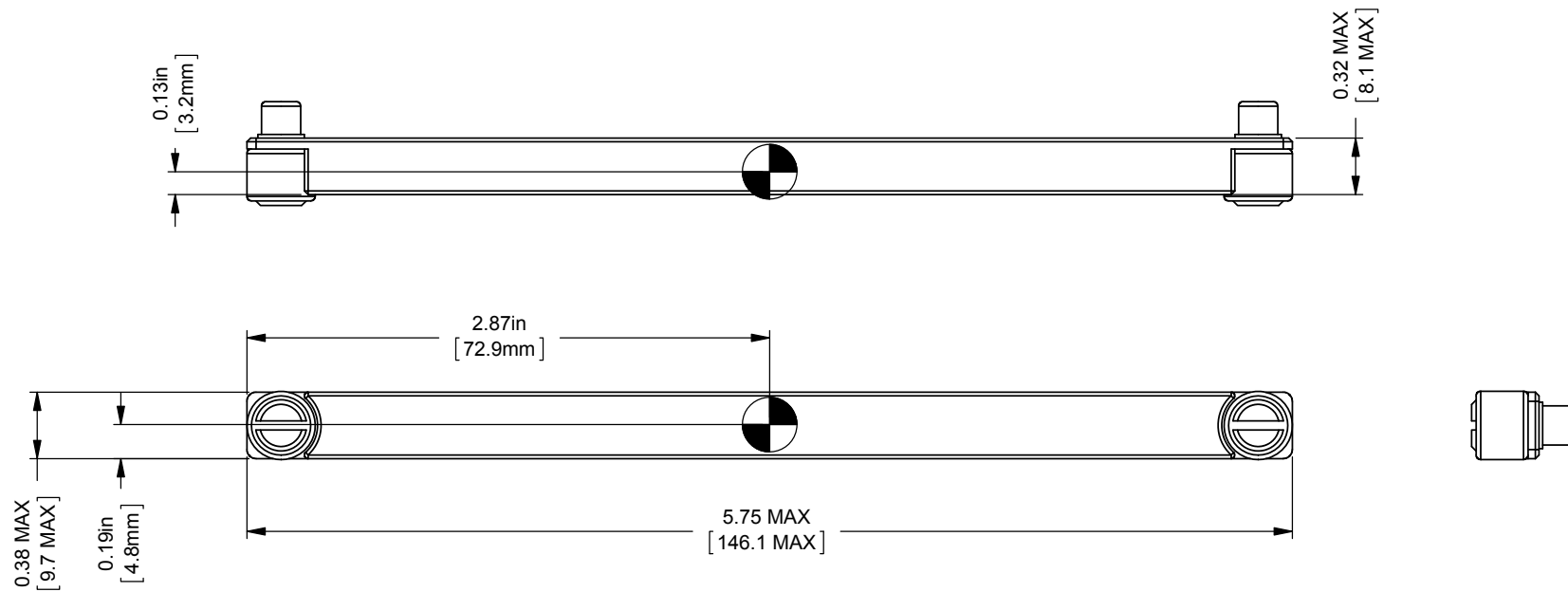
Appendix A - Installation Drawings

A1 Installation Drawings

DOCUMENT	Rev
JA71-001 Mechanical Installation	C
JA71-002 Mechanical Installation	C
JA71-003 Mechanical Installation	C
JA71-004 Mechanical Installation	C
JA71-005 Mechanical Installation	C
JA71-006 Mechanical Installation	C
JA71-007 Mechanical Installation	C

A2 Qualification Form

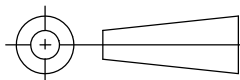
DOCUMENT	Rev
JA71-xxx Environmental Qualification Form	A



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.06 lbs [0.03 kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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1 Dzus Blanking Plate

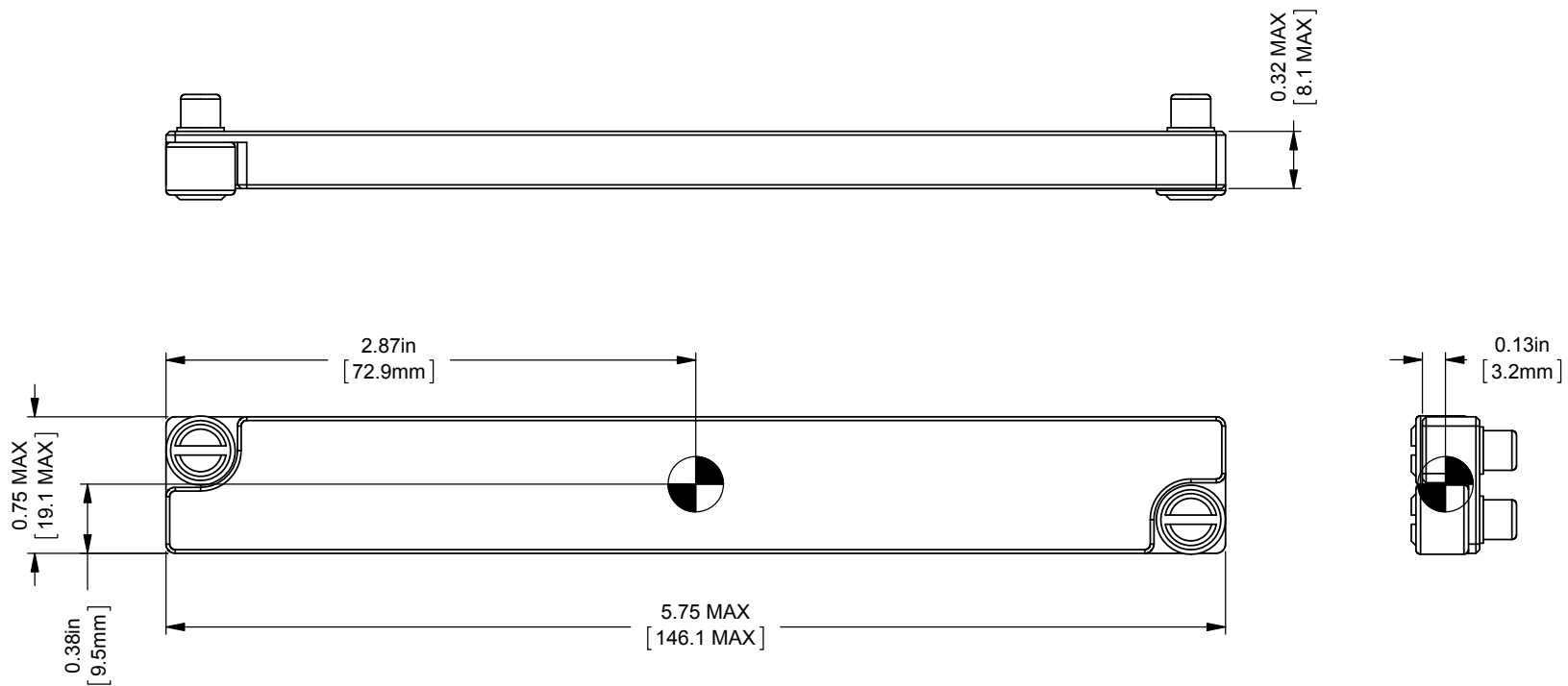
NCAGE CODE
L00N3

PART NO.
JA71-001

SHEET
1/1

DOC. NO.

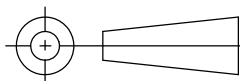
JA71-001 Mechanical Installation Rev C.SLDDRW



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.07 lbs [0.03 kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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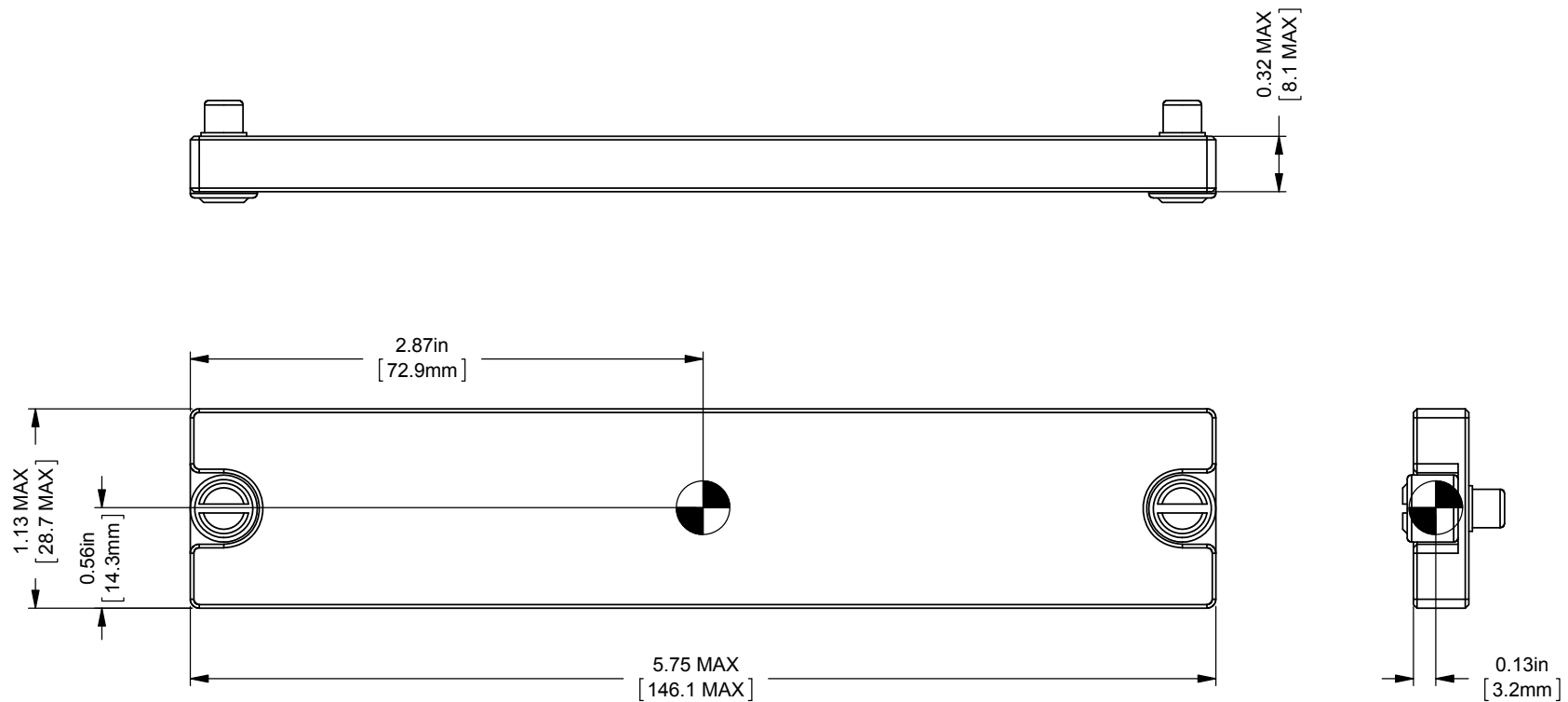
2 Dzus Blanking Plate

NCAGE CODE
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PART NO.
JA71-002

SHEET
1/1

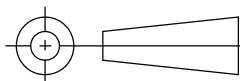
DOC. NO.
JA71-002 Mechanical Installation Rev C.SLDDRW



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.11 lbs [0.05 kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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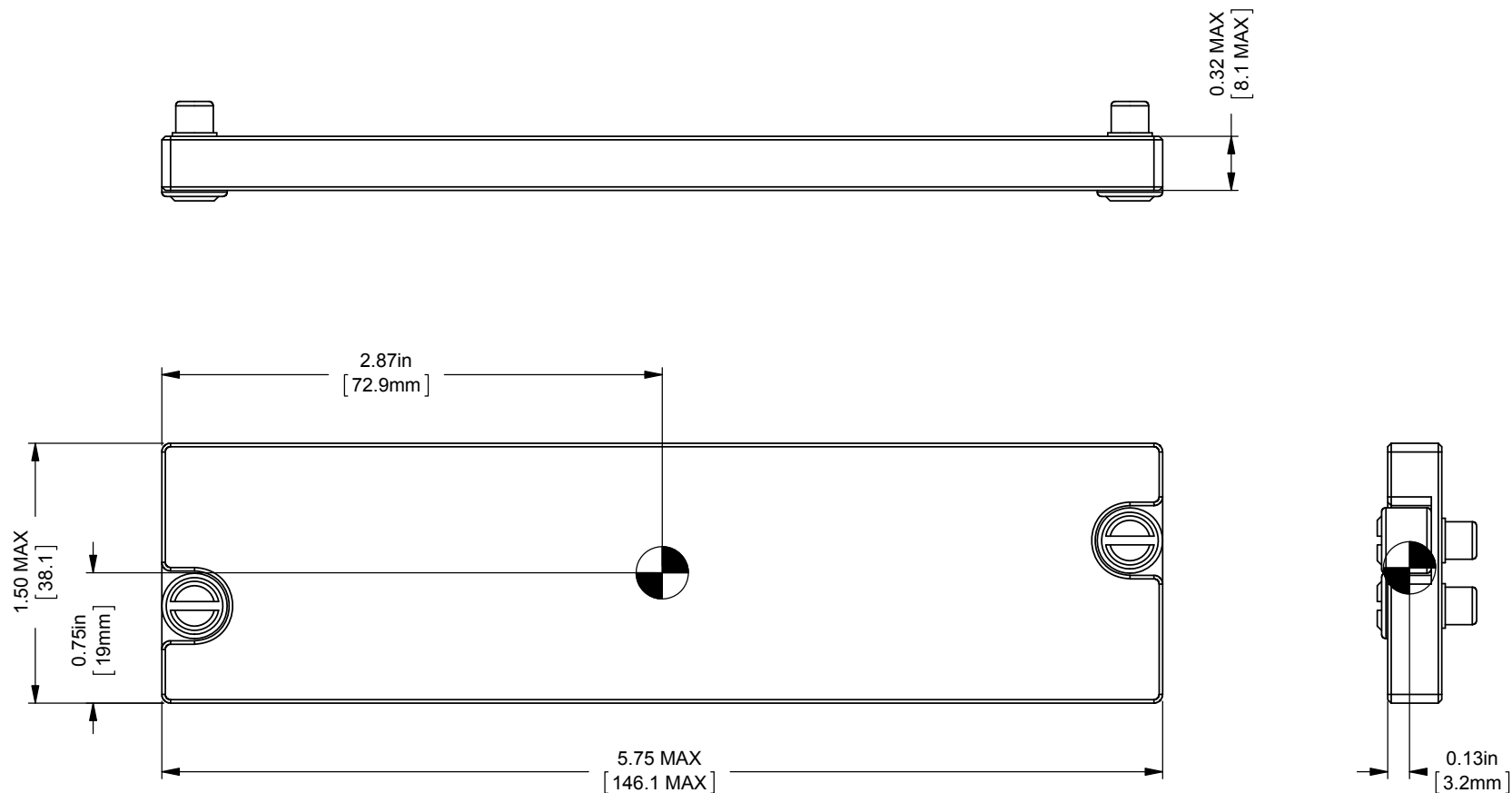
3 Dzus Blanking Plate

NCAGE CODE
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PART NO.
JA71-003

SHEET
1/1

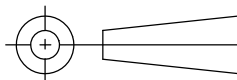
DOC. NO.
JA71-003 Mechanical Installation Rev C.SLDDRW



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.13 lbs [0.06 kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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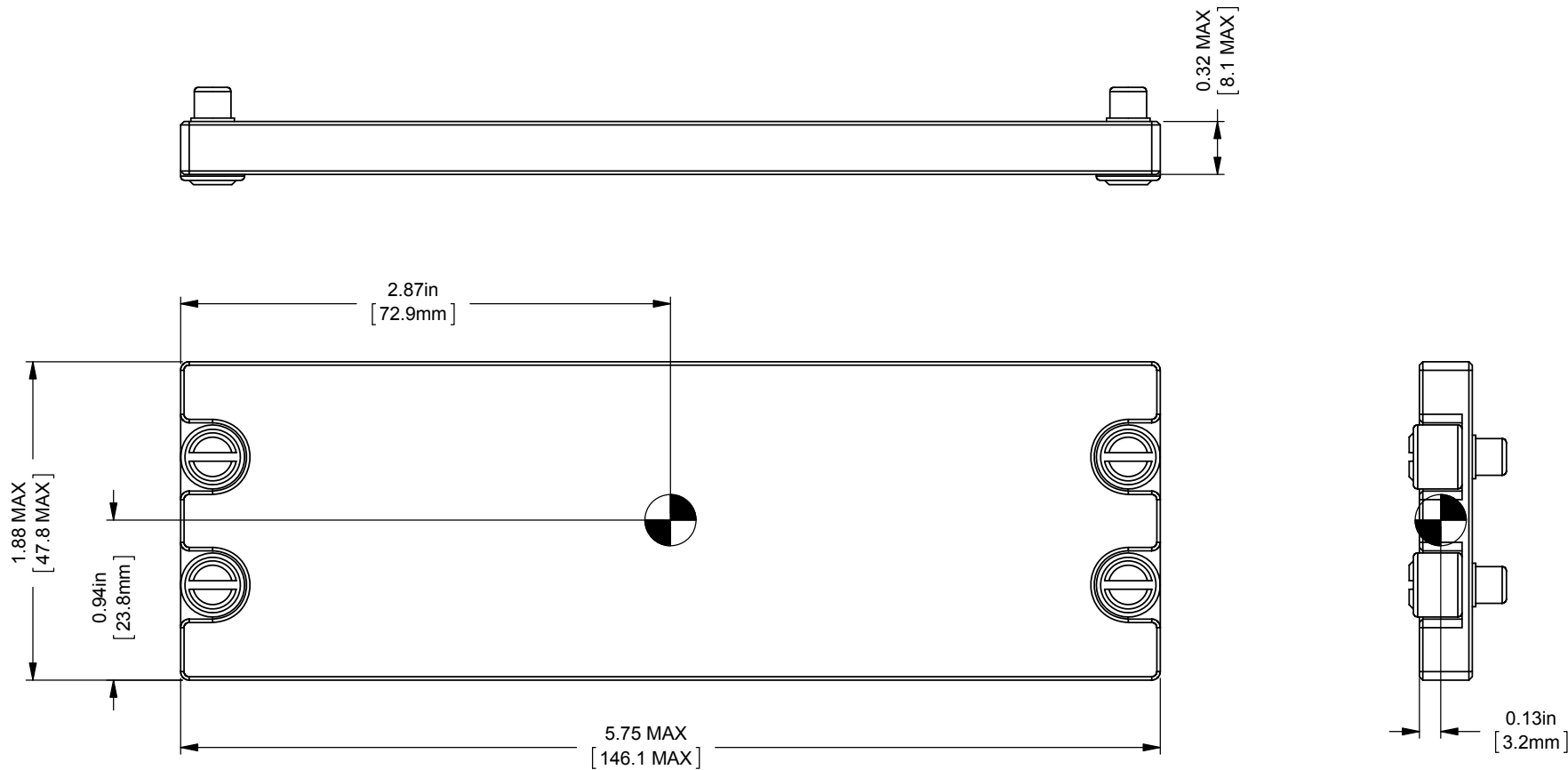
4 Dzus Blanking Plate

NCAGE CODE
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PART NO.
JA71-004

SHEET
1/1

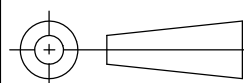
DOC. NO.
JA71-004 Mechanical Installation Rev C.SLDDRW



 CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.17 lbs [0.08 kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A
FINISH: N/A

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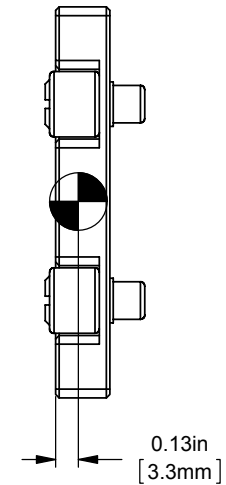
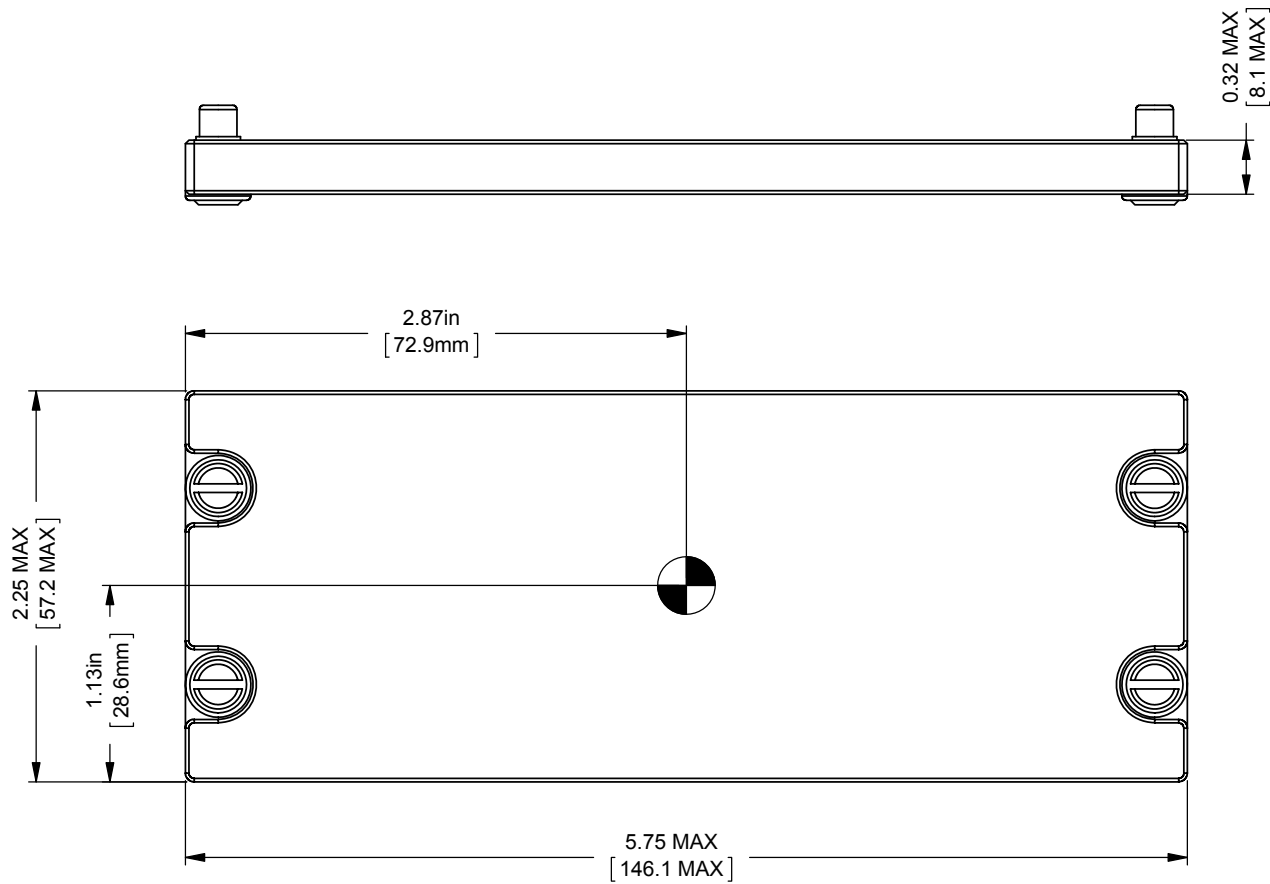
5 Dzus Blanking Plate

NCAGE CODE
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PART NO.
JA71-005

SHEET
1/1

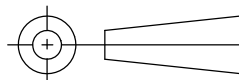
DOC. NO.
JA71-005 Mechanical Installation Rev C.SLDDRW



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.19 lbs [0.09kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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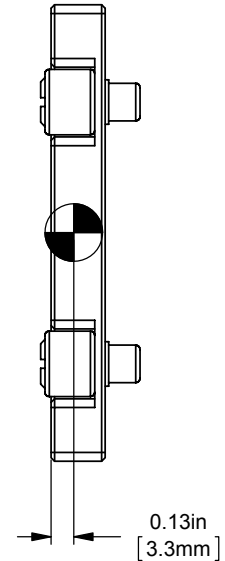
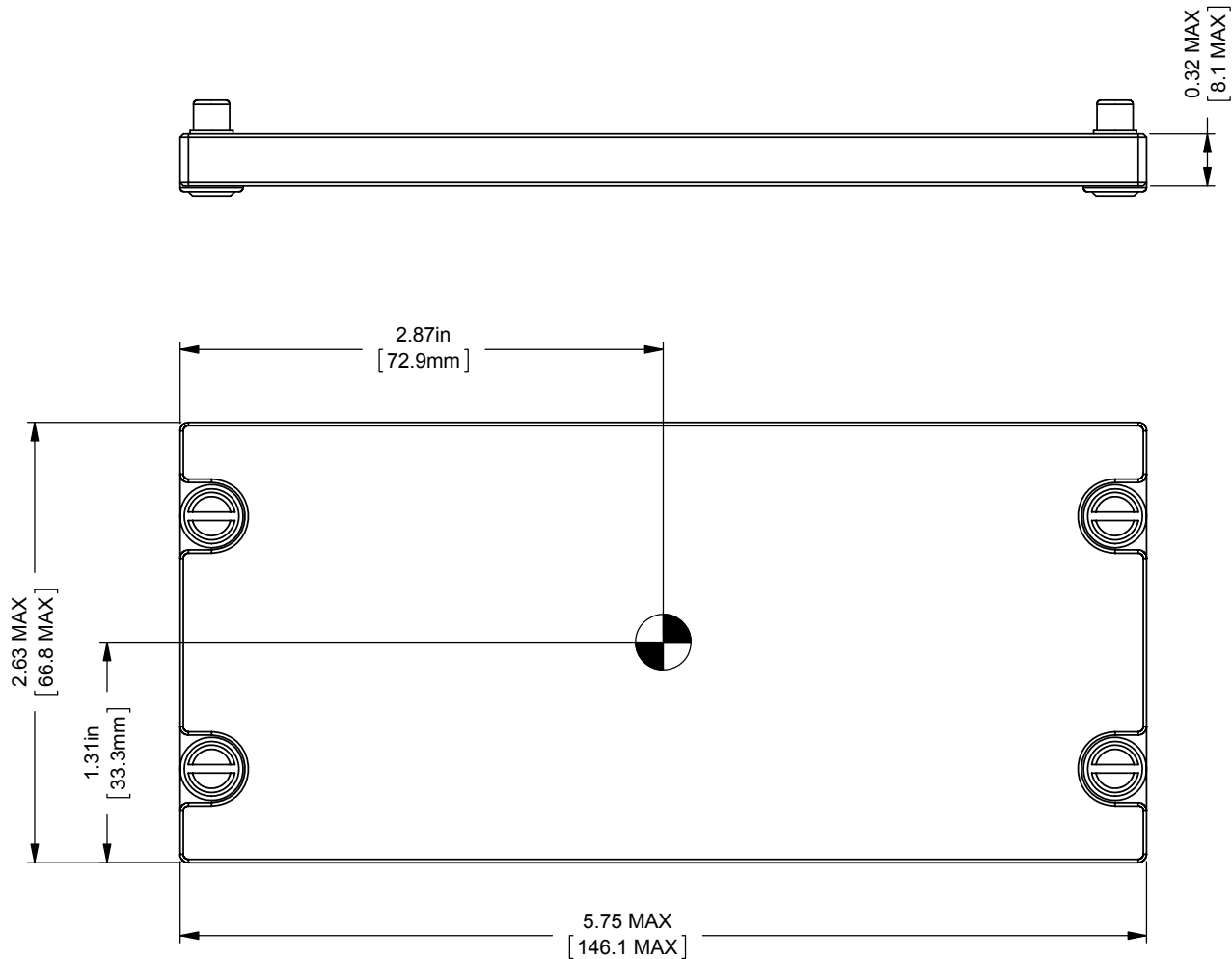
6 Dzus Blanking Plate

NCAGE CODE
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PART NO.
JA71-006

SHEET
1/1

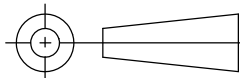
DOC. NO.
JA71-006 Mechanical Installation Rev C.SLDDRW



CENTER OF GRAVITY
±0.03in [0.8mm]

WEIGHT: 0.21 lbs [0.1kg] MAX.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES ARE IN DEGREES
TOLERANCES:
1 DEC PLACE: ± 0.1
2 DEC PLACE: ± 0.01
3 DEC PLACE: ± 0.005
ANGLES: ± 0.5 DEG



MATERIAL: N/A

FINISH: N/A

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7 Dzus Blanking Plate

NCAGE CODE
L00N3

PART NO.
JA71-007

SHEET
1/1

DOC. NO.
JA71-007 Mechanical Installation Rev C.SLDDRW



Prepared: KDV	Checked: 	Approved:
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Nomenclature	Dzus Blanking Plate		
Type/Model/ Part No.:	JA71-001, JA71-002, JA71-003, JA71-004, JA71-005, JA71-006 and JA71-007		
TSO No.:	N/A		
Manufacturer's Build Configuration:	JA71-001 Build Configuration Rev B JA71-002 Build Configuration Rev B JA71-003 Build Configuration Rev B JA71-004 Build Configuration Rev B JA71-005 Build Configuration Rev B JA71-006 Build Configuration Rev B JA71-007 Build Configuration Rev B		
Manufacturer's Test Report:	JA71-XXX Test Report (Qualification - Final) Rev A		
Manufacturer's Specification and/or Other Applicable Specification:	JA71-XXX Design Specification Rev A		
Manufacturer:	Jupiter Avionics Corporation		
Address:	1959 Kirschner Road, Kelowna, BC, Canada, V1Y 4N7		
Revision & Change No of DO-160:	Rev. G dated December 8, 2010	Dates Tested:	Jan 28 to Feb 13, 2013

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED ¹
Temperature and Altitude	4.0	Equipment identified as Category X, no test performed
Temperature Variation	5.0	Equipment identified as Category X, no test performed
Humidity	6.0	Equipment identified as Category X, no test performed
Operational Shock and Crash Safety Operational Shock ² Crash Safety (impulse) Crash Safety (sustained)	7.0	Equipment meets Category B (6 g for 11 msec) Equipment tested to Category B (20 g for 11 msec) Equipment tested to Category B (20 g for 3 sec)
Vibration ³ Fixed Wing – Random and Sine Helicopter – Random, unknown	8.0	Equipment tested to Category [SBM] Equipment tested to Category [U2FF1]
Explosive Atmosphere	9.0	Equipment identified as Category X, no test performed
Waterproofness	10.0	Equipment identified as Category X, no test performed
Fluids Susceptibility	11.0	Equipment identified as Category X, no test performed
Sand and Dust	12.0	Equipment identified as Category X, no test performed
Fungus	13.0	Equipment identified as Category X, no test performed
Salt Fog Test	14.0	Equipment identified as Category X, no test performed
Magnetic Effect	15.0	Equipment identified as Category X, no test performed



CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED ¹
Power Input	16.0	Equipment identified as Category X, no test performed
Voltage Spike	17.0	Equipment identified as Category X, no test performed
Audio Frequency Susceptibility	18.0	Equipment identified as Category X, no test performed
Induced Signal Susceptibility	19.0	Equipment identified as Category X, no test performed
Radio Frequency Susceptibility (Radiated and Conducted)	20.0	Equipment identified as Category X, no test performed
Radio Frequency Emission	21.0	Equipment identified as Category X, no test performed
Lightning Induced Transient Susceptibility	22.0	Equipment identified as Category X, no test performed
Lightning Direct Effects	23.0	Equipment identified as Category X, no test performed
Icing	24.0	Equipment identified as Category X, no test performed
Electrostatic Discharge	25.0	Equipment identified as Category X, no test performed
Fire, Flammability	26.0	Equipment identified as Category X, no test performed
Other Tests	N/A	N/A

Remarks:

1. Test information can be found in Jupiter Avionics document
JA71-XXX Test Report (Qualification - Final) Rev A
2. Operational shock performance qualified by similarity to performance after crash safety (impulse) test.
3. After exposure to vibration test conditions all critical resonances changed frequency less than 1.5%.