

SOLIDWORKS Educational Product. For Instructional Use Only

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH \pm BEND \pm
TWO PLACE DECIMAL \pm .01
THREE PLACE DECIMAL \pm .001



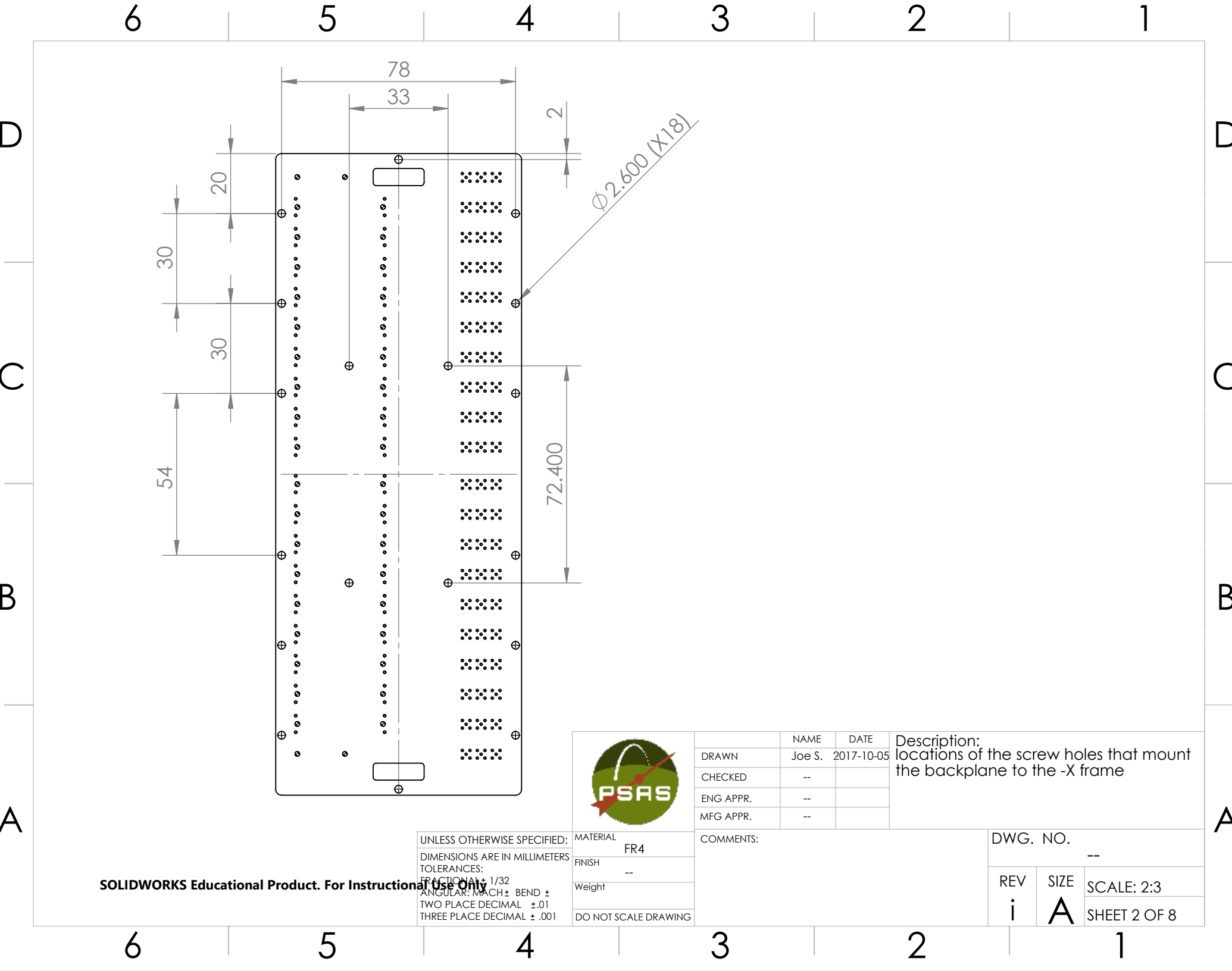
MATERIAL	FR4
FINISH	--
Weight	
DO NOT SCALE DRAWING	

	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
The backplane which connects the
various cards in OreSat

Table of Contents:	1 -- overview
	2 -- DETAIL A (-Y, +Z holes)
	3 -- DETAIL B (+Y, -Z holes)
	4 -- DETAIL C (mid-board)
	5 -- DETAIL D (-Y, -Z holes)
	6 -- DETAIL E (+Y, -Z holes)
	7 -- Cartesian coordinates

DWG. NO.		--
REV	SIZE	SCALE: 1:2
i	A	SHEET 1 OF 8



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ANGULAR: MACH \pm BEND \pm
TWO PLACE DECIMAL \pm .01
THREE PLACE DECIMAL \pm .001

	MATERIAL
	FR4
	FINISH
	--
	Weight
	DO NOT SCALE DRAWING

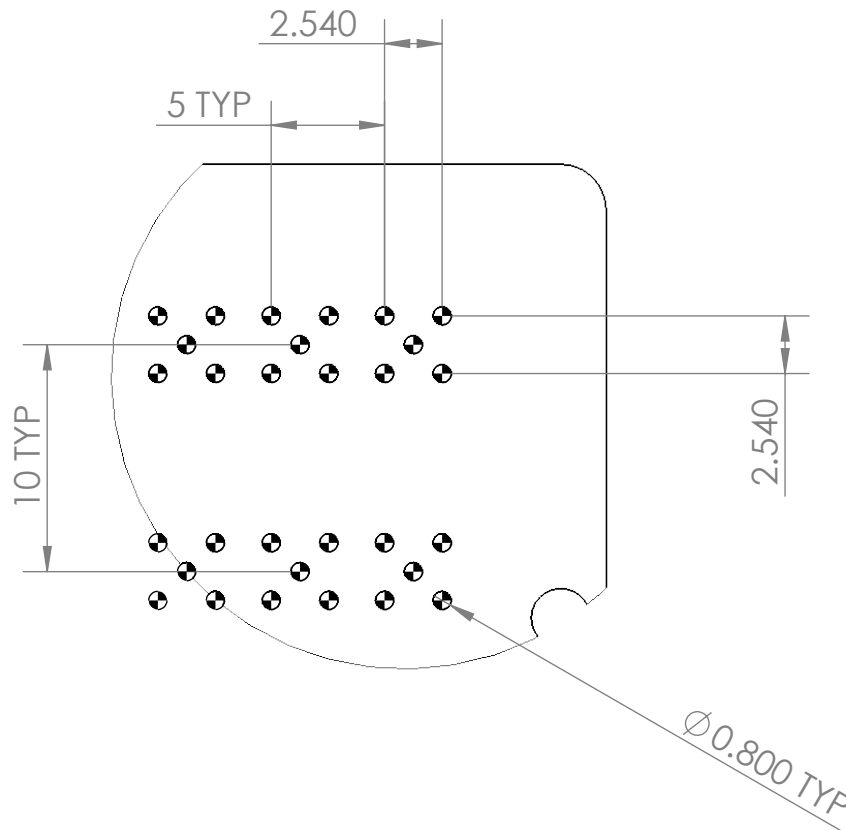
	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

COMMENTS:

Description:
locations of the screw holes that mount
the backplane to the -X frame

REV	SIZE	SCALE: 2:3
i	A	SHEET 2 OF 8

card 1 →



DETAIL B

SCALE 3 : 1



	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
locations of the mounting holes for the
MMCX connectors and backplane

UNLESS OTHERWISE SPECIFIED:
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TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.001

MATERIAL	FR4
FINISH	--
Weight	
DO NOT SCALE DRAWING	

COMMENTS:

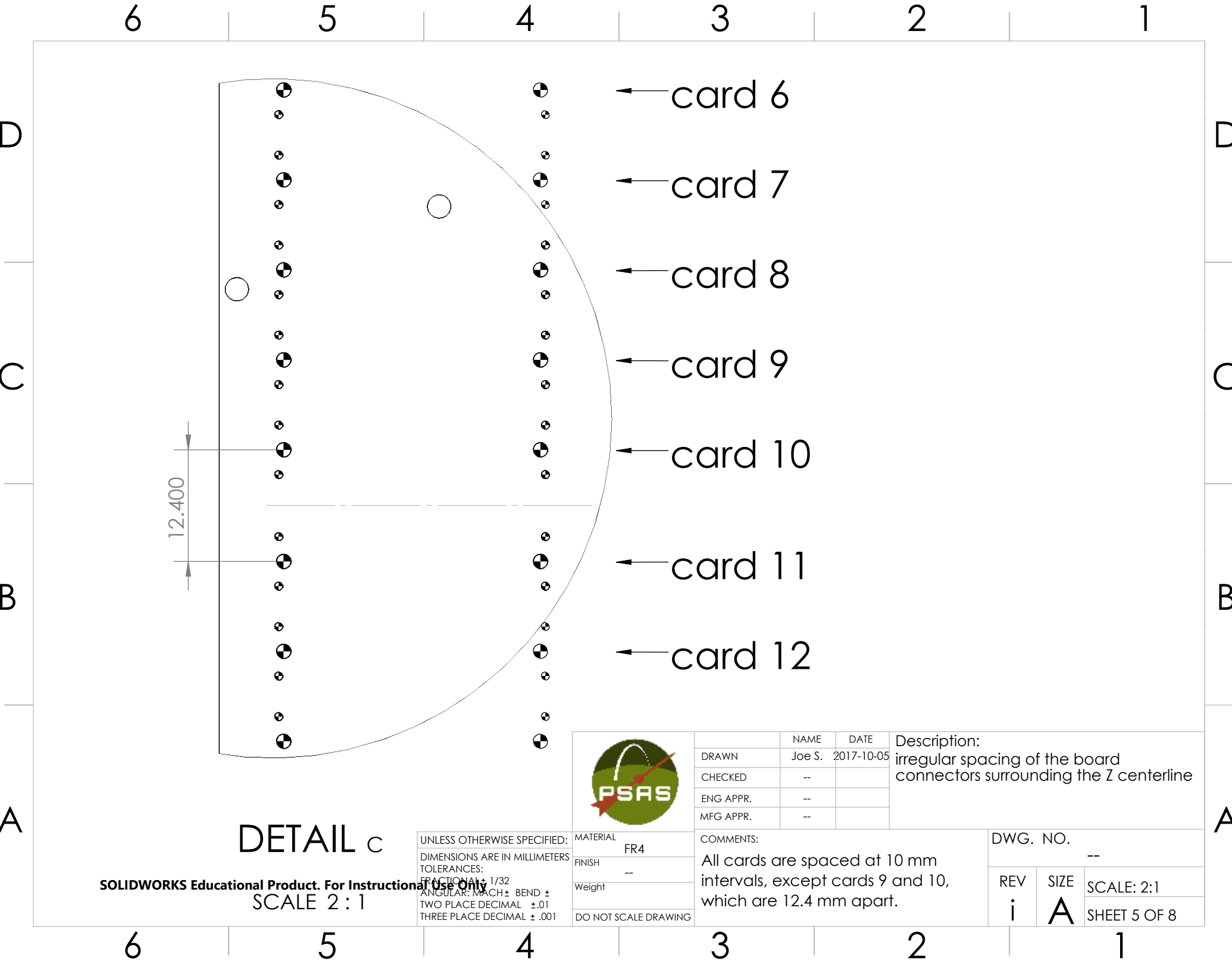
DWG. NO.

--

REV
i

SIZE
A

SCALE: 3:1
SHEET 4 OF 8



DETAIL C

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SCALE 2 : 1

UNLESS OTHERWISE SPECIFIED:
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TOLERANCES:
FRACTIONAL: 1/32
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.001



MATERIAL FR4
FINISH --
Weight
DO NOT SCALE DRAWING

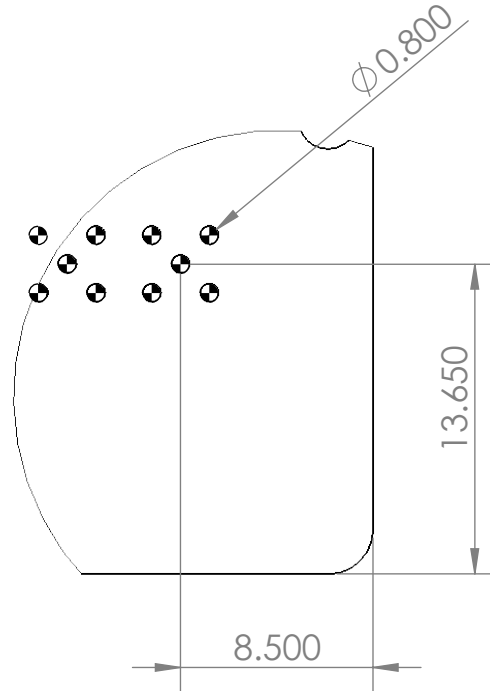
	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
irregular spacing of the board
connectors surrounding the Z centerline

COMMENTS:
All cards are spaced at 10 mm
intervals, except cards 9 and 10,
which are 12.4 mm apart.

DWG. NO. --		
REV i	SIZE A	SCALE: 2:1 SHEET 5 OF 8

card 20



DETAIL E
SCALE 3 : 1



UNLESS OTHERWISE SPECIFIED:
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FRACTIONAL: 1/32
ANGULAR: MACH \pm BEND \pm
TWO PLACE DECIMAL \pm .01
THREE PLACE DECIMAL \pm .001

MATERIAL
FR4
FINISH
--
Weight
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	Joe S.	2017-10-05
CHECKED	--	
ENG APPR.	--	
MFG APPR.	--	

Description:
MMCX and backplane mounting holes
near the -Z, +Y corner

COMMENTS:

DWG. NO.

--

REV
i

SIZE
A

SCALE: 3:1
SHEET 7 OF 8

