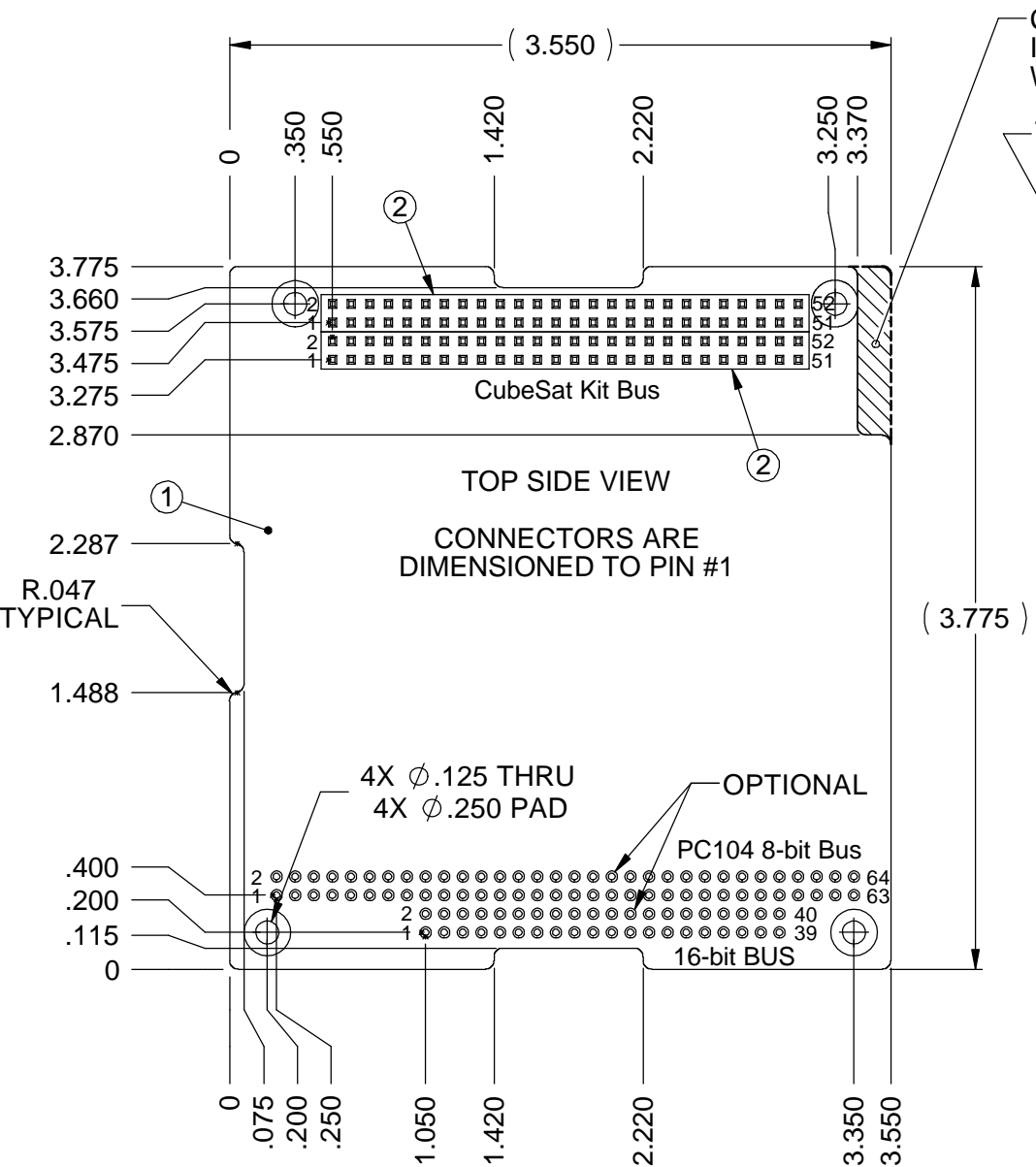


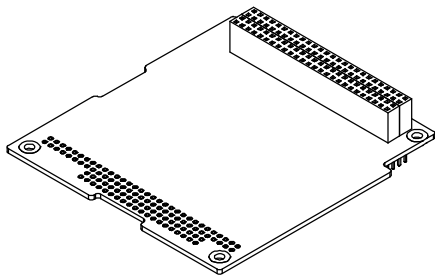
REVISION HISTORY				
REV	LOC	DESCRIPTION	DATE	APP'VD
		SEE SHEET #3		AWR



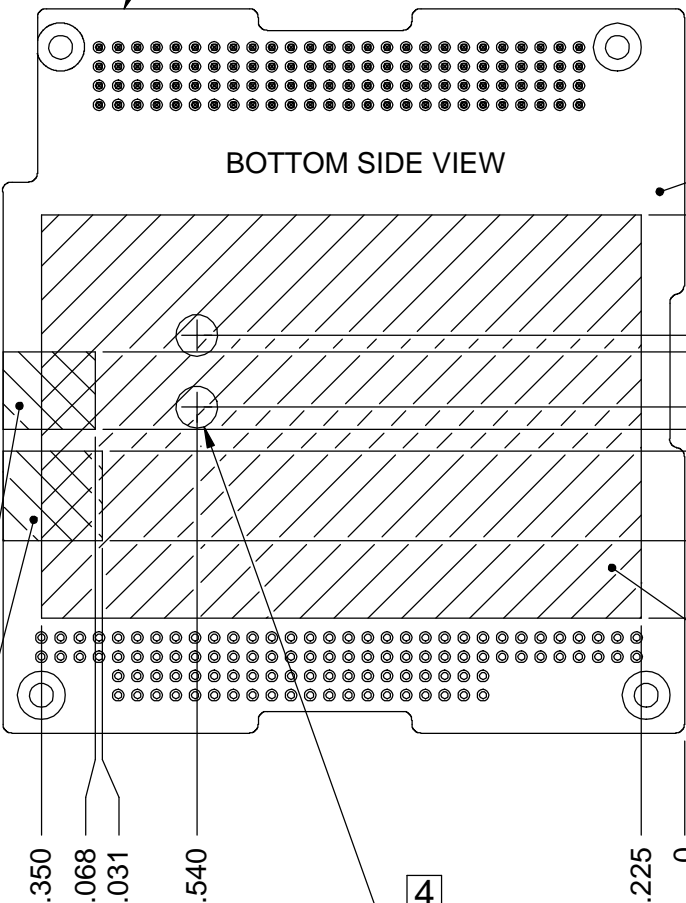
CUTOUT REQUIRED ONLY IF USER MODULE IS LOCATED WITHIN 25mm OF FLIGHT MODULE

TOPSIDE COMPONENT HEIGHTS TO CONFORM TO ACCEPTED PC104/PC104+ STANDARDS (See www.pc104.com)

A .05" (1.27mm) SETBACK FROM THE EDGE IS RECOMMENDED FOR ALL COMPONENTS, ROUTING AND METAL PLANES (APPLIES TO ALL LAYERS OF PCB ARTWORK)



REMAINING AREA MAY HAVE COMPONENTS UP TO A HEIGHT OF AT LEAST (.155") 4mm AND POSSIBLY UP TO .355" (9mm) OR MORE DEPENDING UPON COMPONENT PLACEMENT AND CUBESAT STACK CONFIGURATION.



ITEM	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
1	1	PC104 Spec PCB	User	User
2	2	ESQ-126-39-G-D	2x26 Stack-Through	Samtec.com

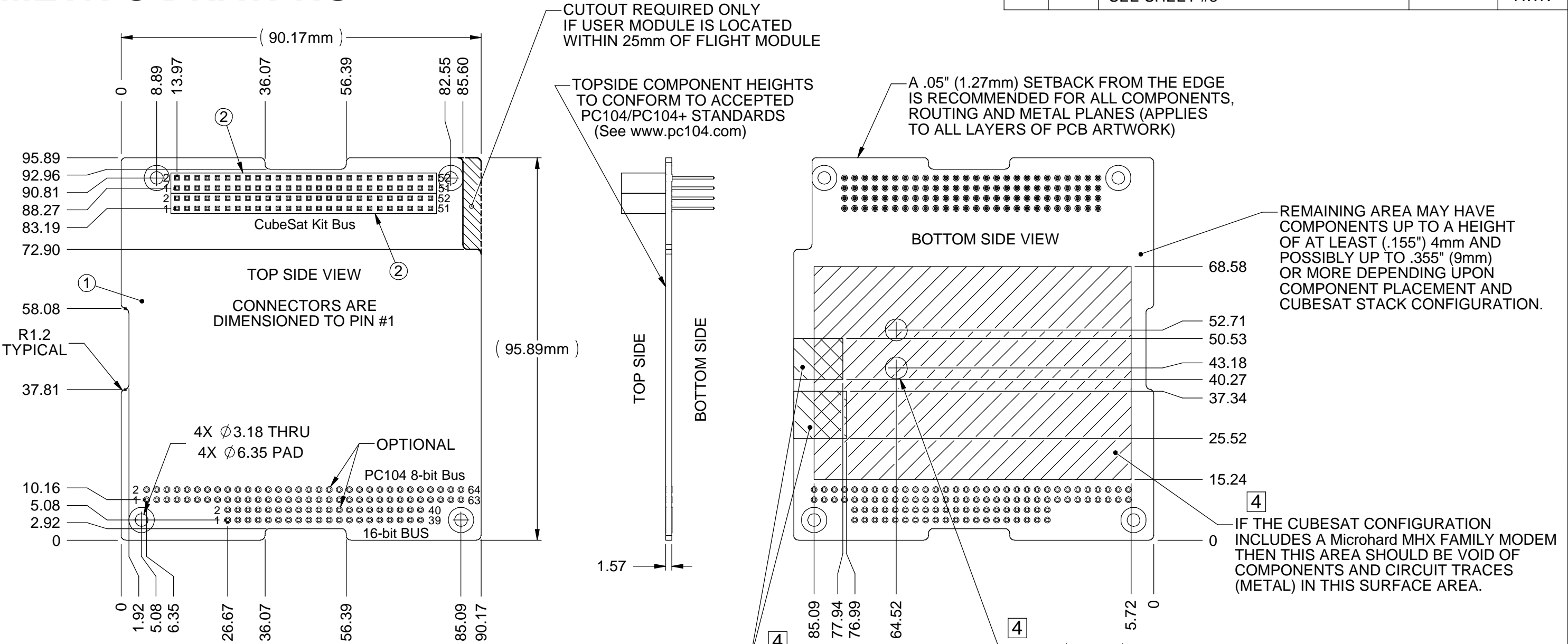
- NOTES:
- Connectors shown are .10" x .10" spacing, .025" square pin.
 - Samtec part numbers listed are low insertion force versions.
 - In the case where a 25mm gap will exist above the User Slot an additional connector should be used to gap the extra 10mm distance, plugged into the main connector. Use part SSQ-1XX-22-G-D where "XX" is the # of contacts per row.
 - These comments apply to situations where the User Module (Slot 1) is directly above the FlightModule (Slot 0).

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MATERIAL:		FINISH:		HEAT TREAT:		WEIGHT:	
<div><div>PUMPKINTM</div><div>INCORPORATED</div></div>				744 Naples - San Francisco - CA 94112 (415) 584-6360 ph - (415) 585-7948 fax info@pumpkininc.com			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .X = ± .040 .XX = ± .020 ± 0° 30" .XXX = ± .010		APPROVALS		DATE		TITLE CubeSat Kit PCB Specification	
		DRAWN <i>AWR</i>		09/26/03			
		CHECKED					
		QUAL ENG				SIZE B	DWG. 810-00253
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		DO NOT SCALE DRAWING		SCALE 1 : 1		SHEET 1 OF 3	

METRIC DRAWING

REVISION HISTORY				
REV	LOC	DESCRIPTION	DATE	APP'VD
		SEE SHEET #3		AWR



ITEM	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER
1	1	PC104 Spec PCB	User	User
2	2	ESQ-126-39-G-D	2x26 Stack-Through	Samtec.com

- NOTES:
- Connectors shown are .10" x .10" spacing, .025" square pin.
 - Samtec part numbers listed are low insertion force versions.
 - In the case where a 25mm gap will exist above the User Slot an additional connector should be used to gap the extra 10mm distance, plugged into the main connector. Use part SSQ-1XX-22-G-D where "XX" is the # of contacts per row.
- 4 These comments apply to situations where the User Module (Slot 1) is directly above the FlightModule (Slot 0).

MATERIAL:		FINISH:	HEAT TREAT:	WEIGHT:
PUMPKIN INCORPORATED		744 Naples - San Francisco - CA 94112 (415) 584-6360 ph - (415) 585-7948 fax info@pumpkininc.com		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		APPROVALS	DATE	TITLE
FRACTIONS DECIMALS ANGLES		DRAWN AWR	09/26/03	CubeSat Kit PCB Specification
X. = \pm 1.0 .X = \pm .50 .XX = \pm .25		CHECKED		
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		QUAL ENG		
DO NOT SCALE DRAWING		SIZE B	DWG. 810-00253	REV A5
SCALE 1:1		SHEET 2 OF 3		

REVISION HISTORY				
REV	LOC	DESCRIPTION	DATE	APP'VD
A1	C4	UPDATED LOCATION OF USB & POWER KEEP OUT ZONES	06/01/2004	AWR
A1	A8	ADDED NOTE #5	06/01/2004	AWR
A2	C7	ADDED CUTOUTS FOR EG SOLAR CONN	01/26/2006	AWR
A2	B7/D7	CHANGED 2x20 HEADER TO 2x26	01/26/2006	AWR
A3	C6	ADDED CUTOUT NOTES FOR SWITCH	02/06/2006	AWR
A4	D8/D6	ADDED CORNER CUTOUTS - ADCS	03/20/2007	AWR
A4	B8/B6	ADDED CORNER CUTOUTS - ADCS	03/20/2007	AWR
A4	C8	ADDED R.047 OUTSIDE CORNER NOTE	03/20/2007	AWR
A4	C6	ADDED .180" x .905" SW CUTOUT	03/20/2007	AWR
A4	C6	CHANGED DRAWING TITLE	03/20/2007	AWR
A4	- -	ADDED METRIC DRAWING (SHEET #2)	03/20/2007	AWR
A5	- -	ADDED NOTATIONS TO SHEET 1 & 2	06/19/2007	AWR

MATERIAL:		FINISH:		HEAT TREAT:		WEIGHT:	
<div><div>PUMPKIN</div><div>INCORPORATED</div></div>				744 Naples - San Francisco - CA 94112 (415) 584-6360 ph - (415) 585-7948 fax info@pumpkininc.com			
		APPROVALS	DATE	TITLE CubeSat Kit PCB Specification			
		DRAWN AWR	09/26/03				
		CHECKED					
		QUAL ENG					
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		DO NOT SCALE DRAWING		SIZE B	DWG.	810-00253	REV A5
				SCALE : NONE			SHEET 3 OF 3