CONNECTOR PART NUMBER BUILD SAMPLE PART NUMBER: VSF-04-10-50-00

VSF-XX-XX-XX-XX

HA	ARDWARE OPTIONS $\sqrt{2}$
BLANK	NO HARDWARE 🟂
G	GUIDE SOCKET /3
G1	GUIDE SOCKET /4
J	TURNING JACKSCREW/3
J1	TURNING JACKSCREW/4
L	LOCKING SCREW 🔏
L1	LOCKING SCREW 👍
Ν	FIXED JACKNUT 🔏
N1	FIXED JACKNUT 👍
	BLANK G G1 J L L1 N

		TERMINATION
	00	PRESS-FIT
	01	PASTE-IN-HOLE (PIH)
	02	PLATED-THRU-HOLE (PTH) .078" LENGTH
	03	PLATED-THRU-HOLE (PTH) .109" LENGTH
	04	PLATED-THRU-HOLE (PTH) .140" LENGTH
	05	PLATED-THRU-HOLE (PTH) .156" LENGTH
	06	PLATED-THRU-HOLE (PTH) .172" LENGTH
<u>``</u>	10	SURFACE MOUNT (SMT) NON-ROHS COMPLIAN
<u>/</u>	11	SURFACE MOUNT (SMT) ROHS COMPLIANT

CONTAC	T PLATING
50	50µIN Au

COLUMNS			
10	10 COLUMNS		
20	20 COLUMNS		
30	30 COLUMNS		
40	40 COLUMNS		
50	50 COLUMNS		

ROWS			
04	4 ROWS		
05	5 ROWS		
06	6 ROWS		
80	8 ROWS		
10	10 ROWS		

ISOMETRIC VIEW FOR REFERENCE ONLY (PART NUMBER VSF-04-10-50-00 SHOWN)

		MATERIAL AND FINISHES	
	MATERIAL	BeCu PER ASTM B194	
SOCKET CONTACTS	FINISH SOCKET END	50µIN MIN LOCALIZED AU PER ASTM B488 TYPE II, CODE C OVER 50µIN MIN NI PER ASTM B689 TYPE 1	
	FINISH TERMINATION END	PIH & PTH: 10µIN MIN LOCALIZED AU FLASH PER ASTM B488 TYPE I, CODE A OR C OVER 50µIN MIN NI PER ASTM B689 TYPE 1 PRESS—FIT: 50µIN MIN LOCALIZED AU PER ASTM B488 TYPE II, CODE C OVER 50µIN MIN NI PER ASTM B689 TYPE 1 SMT NON—RoHS: 10µIN MIN LOCALIZED AU FLASH PER ASTM B488 TYPE I, CODE A OR C OVER 50µIN MIN NI PER ASTM B689 TYPE 1.	_
	, , , , , , , , , , , , , , , , , , , ,	TIN DIPPED WITH Sn63Pb37 SOLDER. SMT RoHS: 10µIN MIN LOCALIZED Au FLASH PER ASTM B488 TYPE I, CODE A OR C OVER 50µIN MIN NI PER ASTM B689 TYPE 1. TIN DIPPED WITH 42Sn/57.6Bi/0.4Ag SOLDER.	
MOLDED INSULATORS	MATERIAL	GLASS-FILLED LIQUID CRYSTAL POLYMER (LCP) PER ASTM D5138	
EMBEDMENT	MATERIAL	FREY ENG. CO. INSULATING COMPOUND CF3003-80 OR EQUIVALENT	
HARDWARE	MATERIAL	STAINLESS STEEL PER ASTM A484/A484M, ASTM A582/A582M, OR ASTM A320	
	FINISH	PASSIVATED PER SAE AMS-2700	
WACLIEDS	MATERIAL	STAINLESS STEEL PER SAE NASM35333 (ASTM A240)	
WASHERS	FINISH	PASSIVATED PER NASM35333 (SAE AMS-2700)	
		DEDECRMANCE	٦

	PERFORMANCE
CONTACT RATING	2 AMPERES MAXIMUM, SEE AIRBORN PTB66 FOR MORE INFO
OPERATING TEMPERATURE	-55°C TO 125°C, SEE AIRBORN PTB66 FOR MORE INFO
CONTACT ENGAGEMENT FORCE	6.0oz MAX*
CONTACT SEPARATION FORCE	0.5oz MIN*
CONNECTOR MATING FORCE	10oz X (# OF CONTACTS) MAX TESTED PER MIL-DTL-83513
CONNECTOR UNMATING FORCE	10oz X (# OF CONTACTS) MAX TESTED PER MIL-DTL-83513
DWV (SEA LEVEL)	600V, RMS, 60Hz, SEE AIRBORN PTB61 FOR MORE INFO
RECOMMENDED MAX OPERATING VOLTAGE	200V, RMS, 60Hz, SEE AIRBORN PTB61 FOR MORE INFO
INSULATION RESISTANCE	5,000 MEGAOHMS MINIMUM @ 500 VDC TESTED PER MIL-DTL-835
DURABILITY	2,500 CONNECTOR MATING CYCLES, EXCEEDS MIL-DTL-83513
SINUSOIDAL VIBRATION	20 g, TESTED PER MIL-DTL-83513
SHOCK	50 g, TESTED PER MIL-DTL-83513
OUTGASSING	MAX TML OF 1% AND MAX CVCM OF .1% PER MIL-DTL-83513

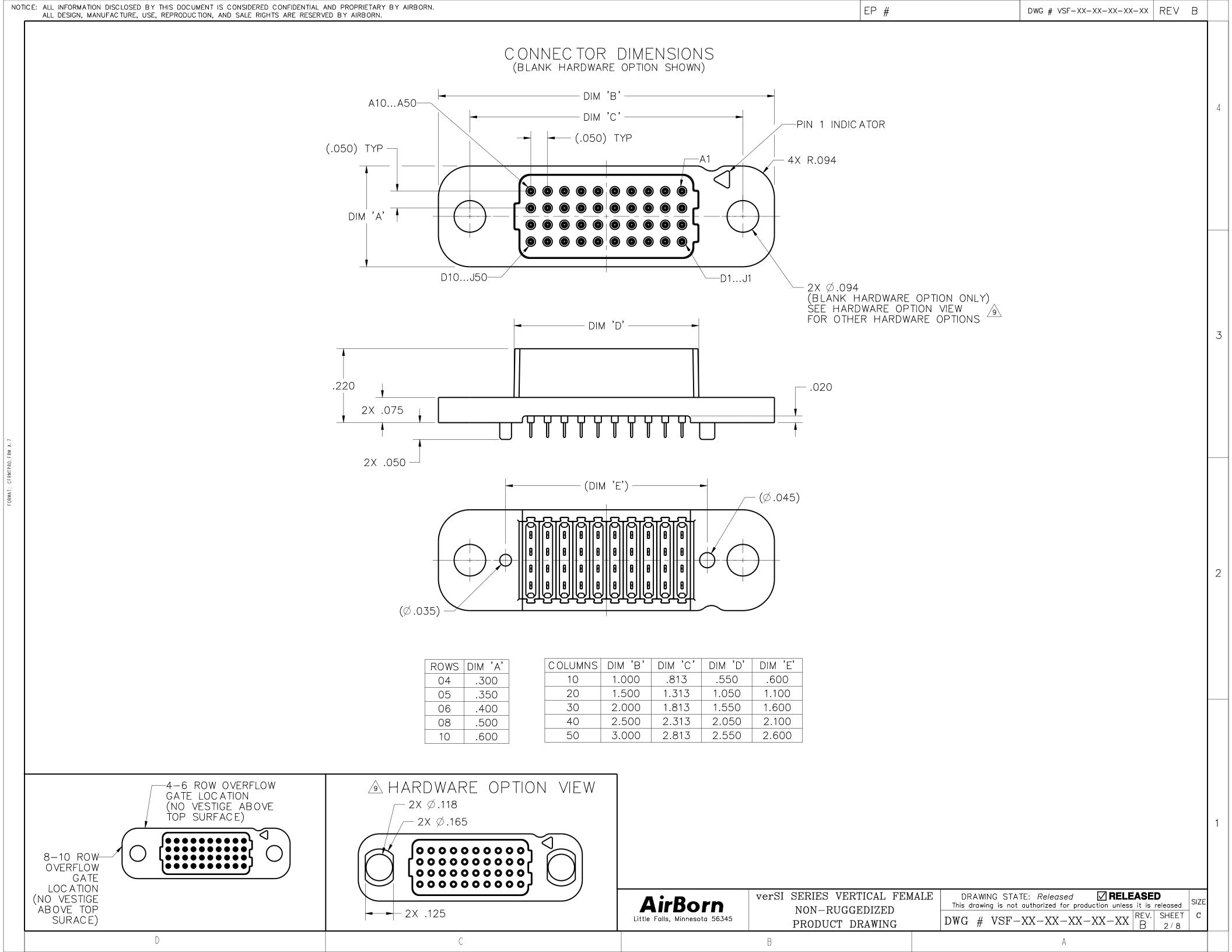
*FORCES TESTED ON SOCKET ONLY. MAX PIN SIZE USED FOR CONTACT ENGAGEMENT FORCE AND MIN PIN SIZE USED FOR CONTACT SEPARATION FORCE.

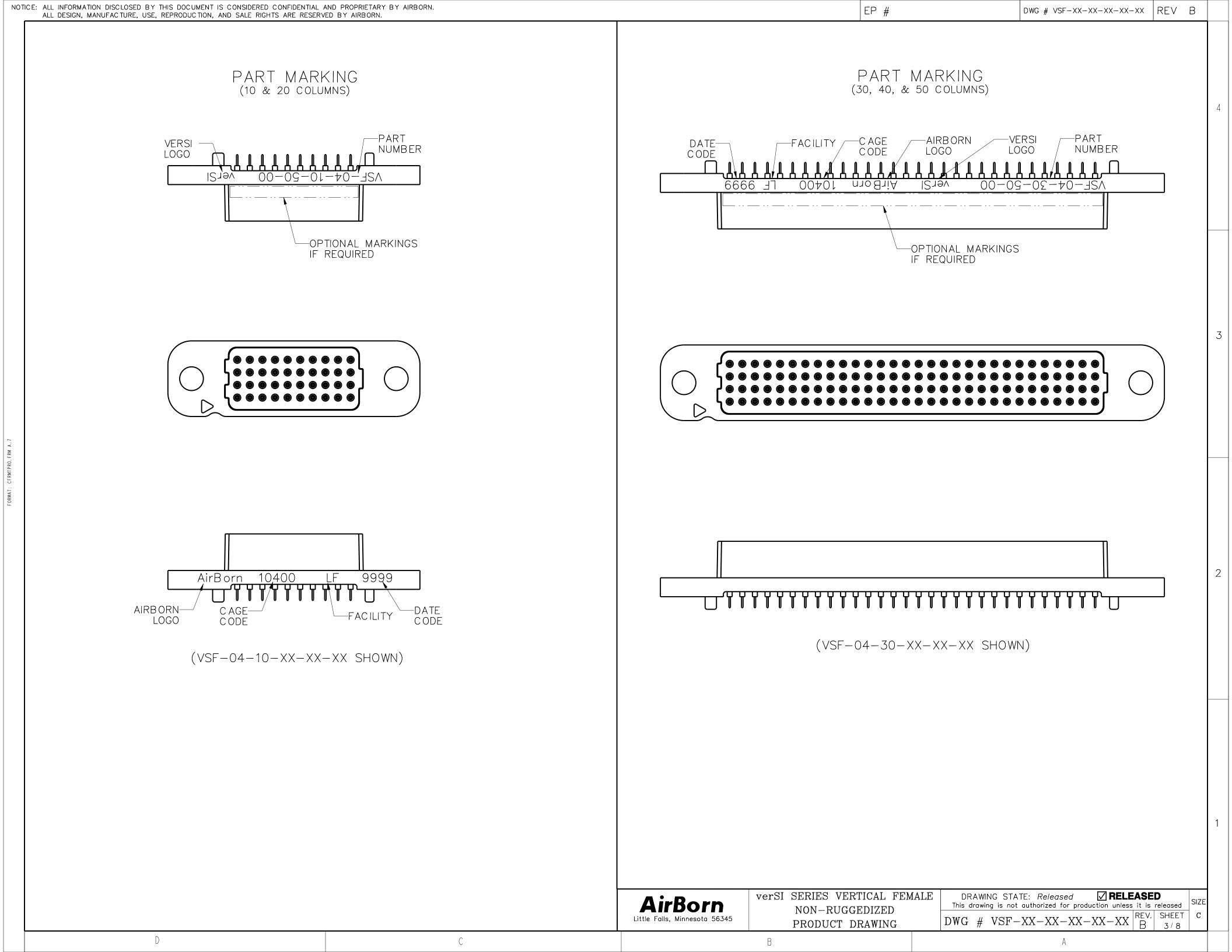
NOTES:

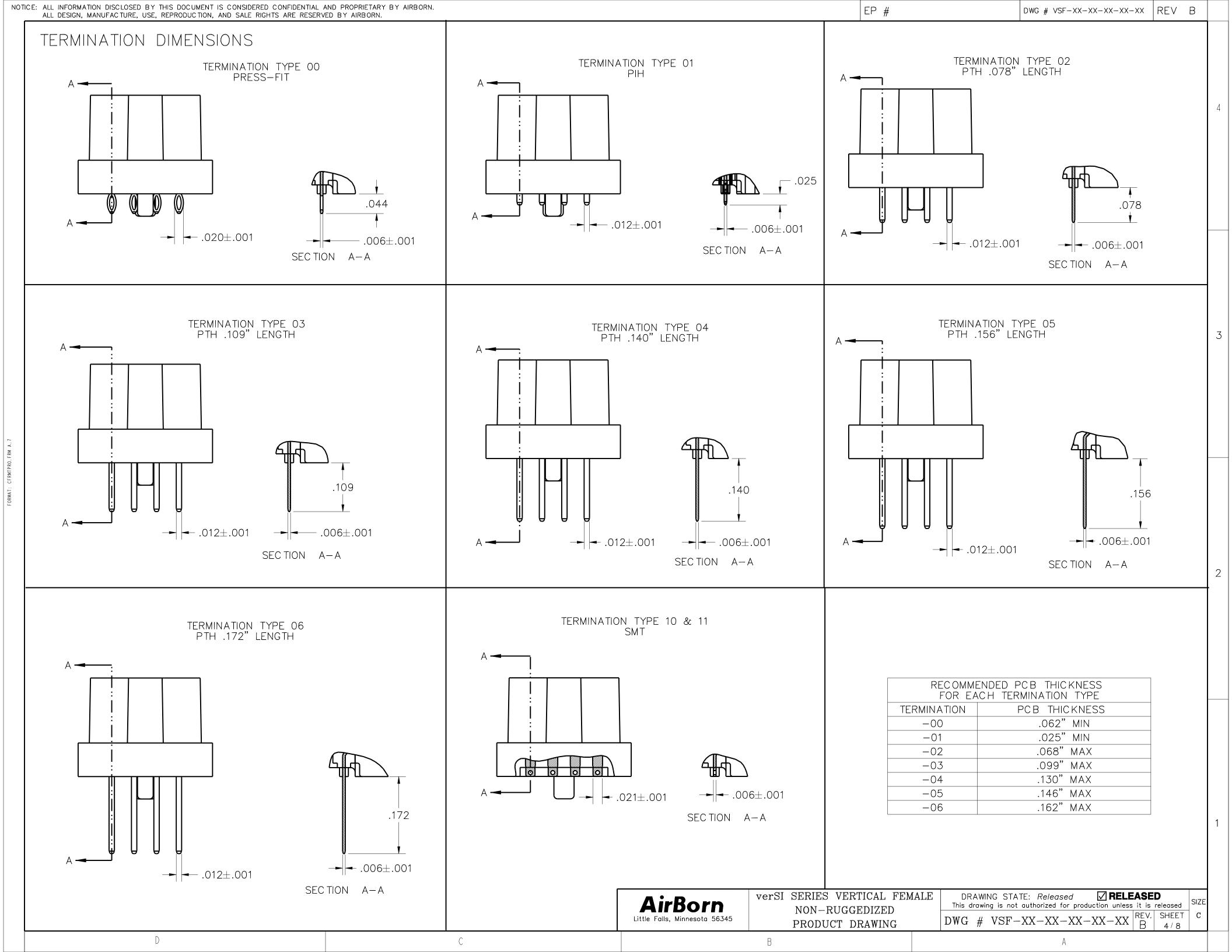
- 1. SEE AIRBORN SPEC ESL5001 FOR ADDITIONAL APPLICATION INFORMATION.
- SEE SHEET 8 FOR REPLACEMENT HARDWARE KITS.
- JUSE FOR UP TO .125 PCB THICKNESS.
- USE FOR .125 TO .250 PCB THICKNESS.
- NO HARDWARE SUPPLIED WITH BLANK HARDWARE OPTION CONNECTORS.
- 6 ONLY AVAILABLE FOR 4 ROW CONNECTORS.
- 7. PACKAGING: PARTS SUPPLIED IN THERMOFORMED TRAYS, HARDWARE SUPPLIED UNINSTALLED.
- 8. MATES WITH CONNECTOR SERIES: VSM, VSRAM, VSX (MALE), VRD (MALE), VRW (MALE).

MATERIAL: SEE NOTES Temper: Per Spec.: R/M P/N ref: Certification required: NO	UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE: Decimals: .XX ± .010
HEAT TREAT: Per Spec.: Certification required: NO	Surfaces to be flat, perpendicular parallel within .002 T.I.R. Dimensions are in inches/DO NOT SCALE PRINT Surface finish to be 32/ or better APPLICATION: verSI SERIES DRAWING STATE: Released This drawing is not authorized for production unless it is released DR. TJW T VerSI SERIES VERTICAL FEMALE
FINISH: SEE NOTES Per Spec.: Certification required: NO	B SEE ECO KTR W57940 100517 CK. REV DESCRIPTION DATE APPD. BY 100517 E PRODUCT DRAWING
MAKE FROM: N/A NEXT ASSY: N/A	► = CRITICAL CHARACTERISTIC ■ = MAJOR CHARACTERISTIC PROJECTION APPD. APPD. APPD. DWG # VSF-XX-XX-XX-XX-XX REV. SHEET 1/8 1/

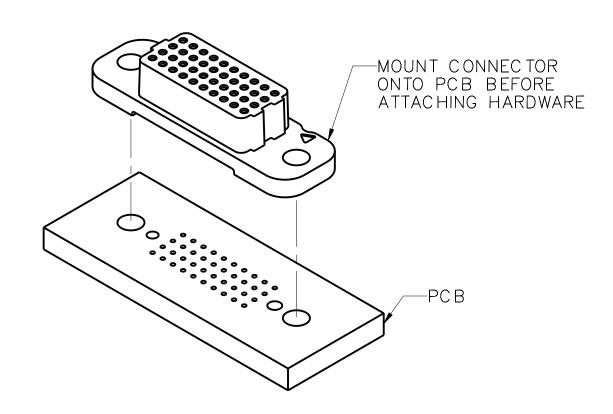




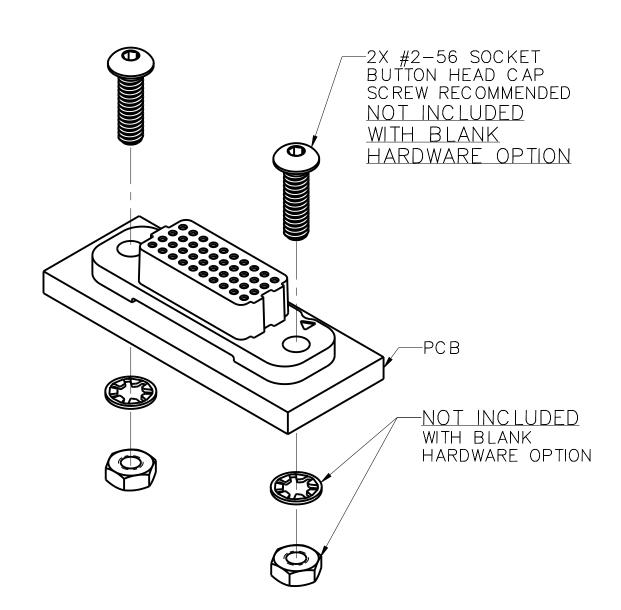




PCB MOUNTING INSTRUCTIONS (BLANK HARDWARE OPTION SHOWN)

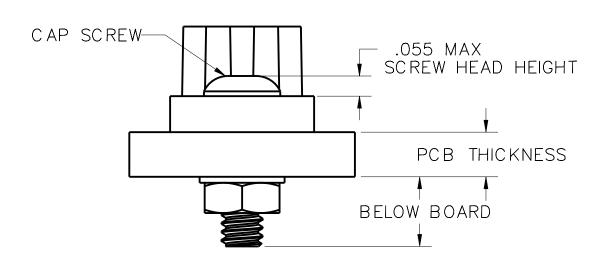


STEP 1: PTH, PIH & SMT: SOLDER CONNECTOR ONTO PCB PRESS-FIT: PRESS CONNECTOR ONTO PCB (SEE ESL5001 FOR MORE DETAILS ON INSTALLING THE CONNECTOR ONTO THE PCB)



<u>STEP 2:</u> ATTACH HARDWARE (SEE ESL5001 FOR ADDITIONAL DETAILS AND HARDWARE TORQUE SPECIFIC ATIONS)

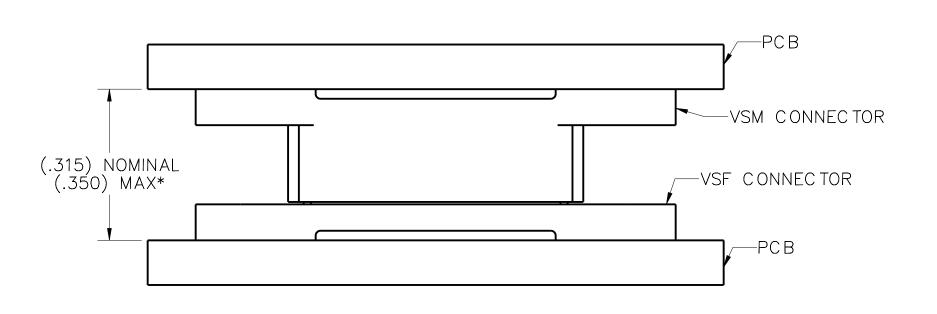
RECOMMENDED PCB MOUNTING HARDWARE MOUNTING HARDWARE NOT INCLUDED WITH BLANK HARDWARE OPTION



RECOMMENDED SCREWS FOR COMMON PCB THICKNESSES

PCB THICKNESS	BUTTON HEAD CAP SCREW	BELOW BOARD
.062	#2-56 X 1/4"	(.114)
.094	#2-56 X 5/16"	(.145)

VSF CONNECTOR MATED TO VSM CONNECTOR



(8MM BOARD SPACING SHOWN) SEE VSM-XX-XX-XXX-XX-XX DRAWING FOR MORE BOARD SPACING OPTIONS

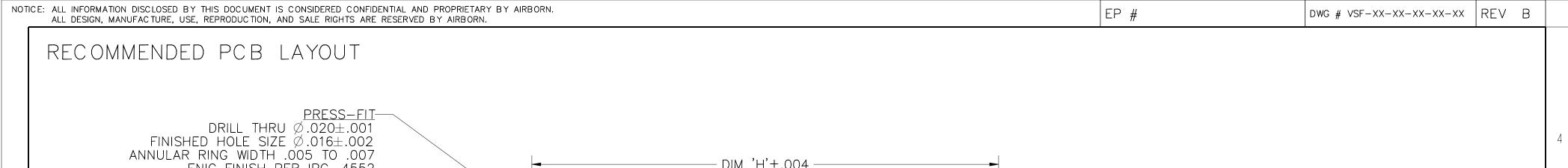
*MAX VALUE IS AT MAXIMUM ALLOWABLE SEPARATION BETWEEN MATED CONNECTORS

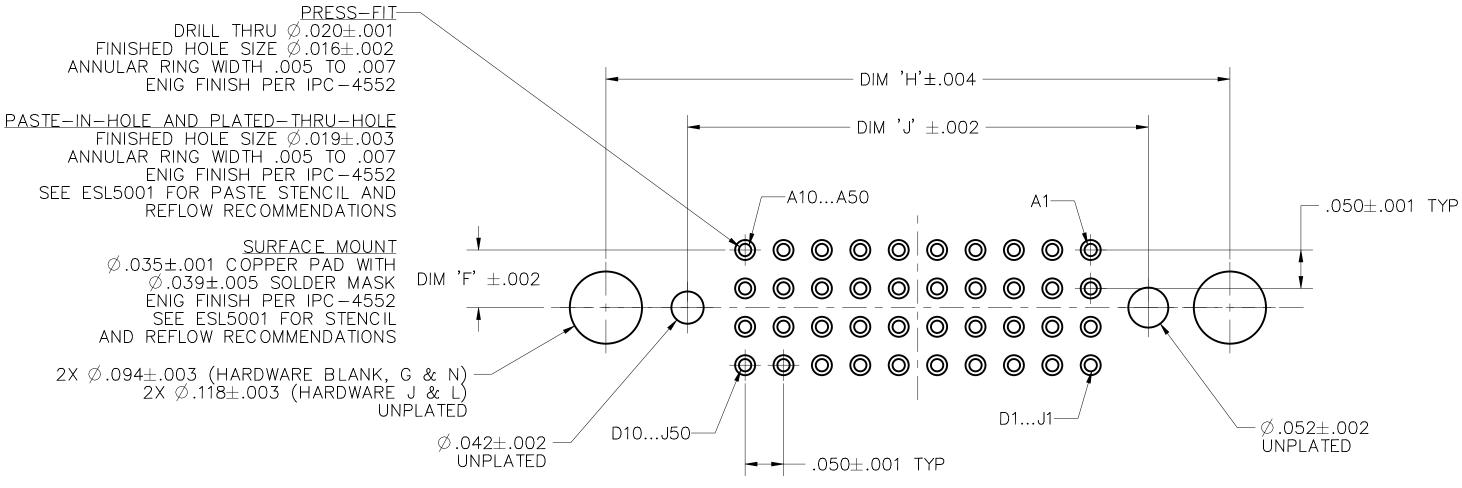
AirBorn Little Falls, Minnesota 56345 verSI SERIES VERTICAL FEMALE NON-RUGGEDIZED PRODUCT DRAWING

DRAWING STATE: Released RELEASED

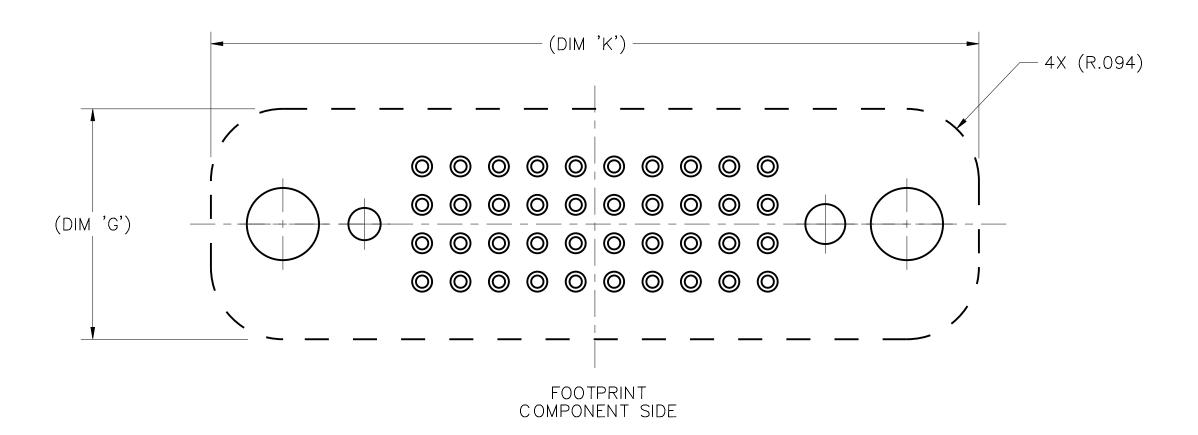
This drawing is not authorized for production unless it is released

DWG # VSF-XX-XX-XX-XX REV. SHEET C B 5/8





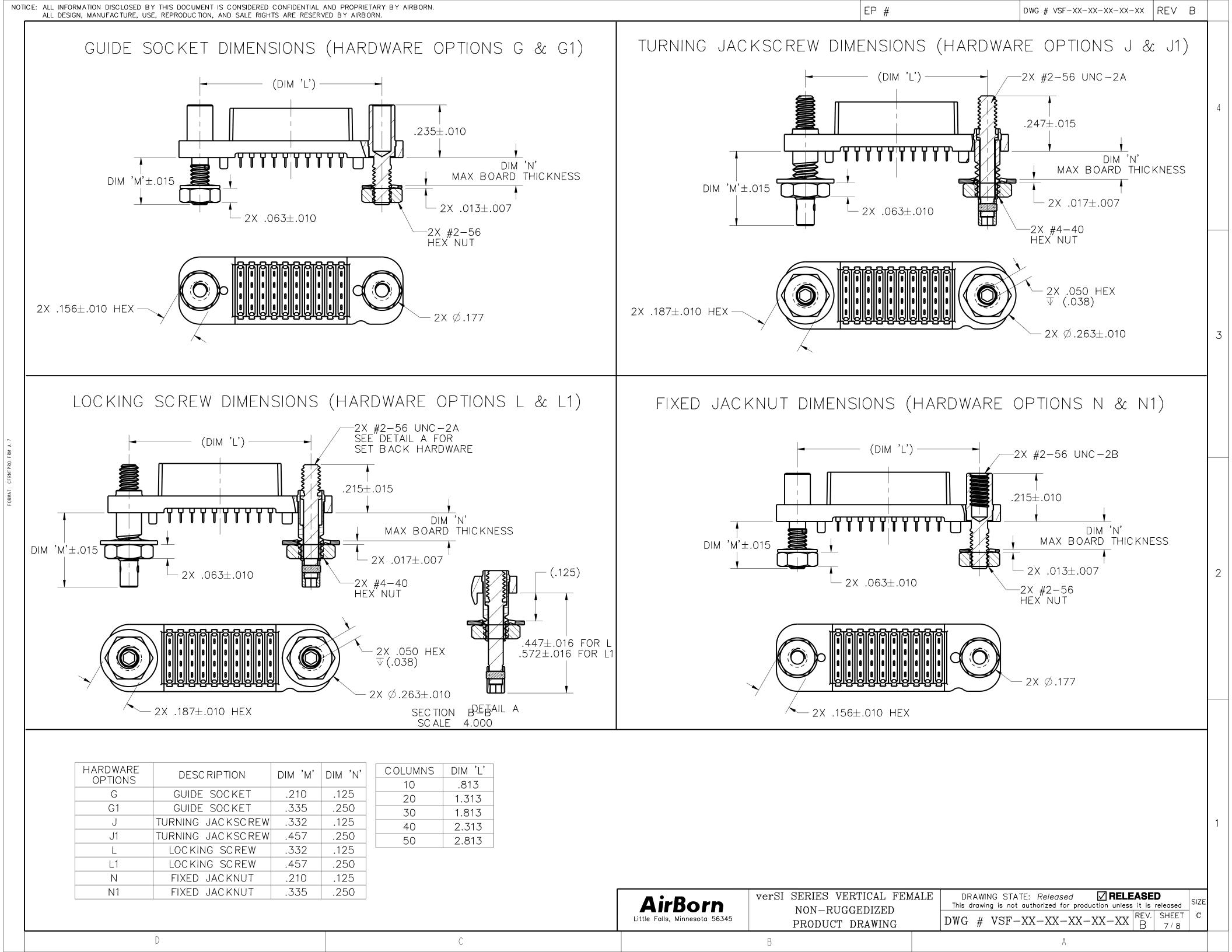
RECOMMENDED BOARD LAYOUT COMPONENT SIDE

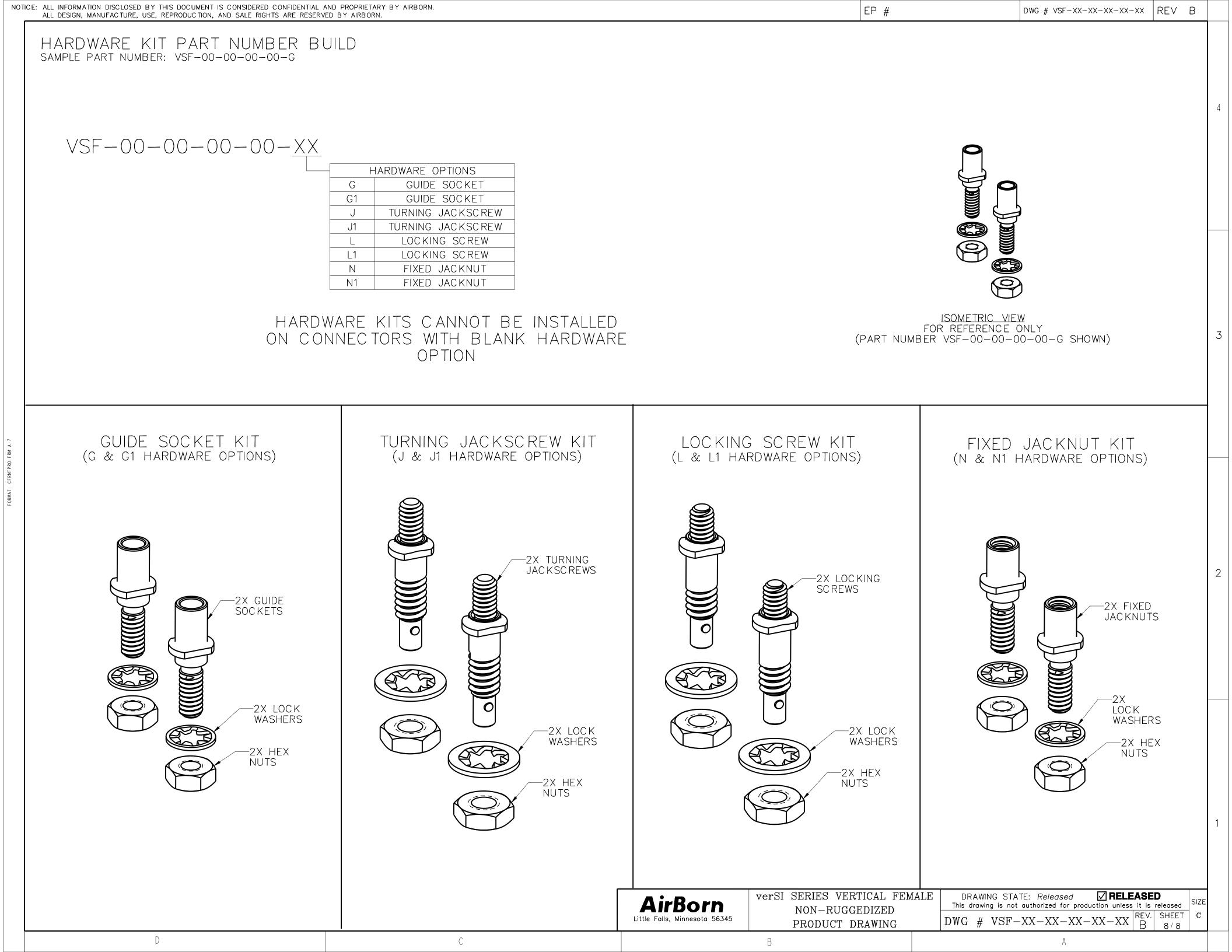


ROWS	DIM 'F'	DIM 'G'
04	.075	.300
05	.100	.350
06	.125	.400
80	.175	.500
10	.225	.600

COLUMNS	DIM 'H'	DIM 'J'	DIM 'K'
10	.813	.600	1.000
20	1.313	1.100	1.500
30	1.813	1.600	2.000
40	2.313	2.100	2.500
50	2.813	2.600	3.000

AirBorn Little Falls, Minnesota 56345	verSI SERIES VERTICAL FEMALE NON-RUGGEDIZED	DRAWING STATE: Released	
	NON-KOGGEDIZED	DING WINGE STATE STATE STATE REV. SHEET	7 C
	PRODUCT DRAWING	DWG # VSF-XX-XX-XX-XX-XX REV. SHEET 6/8	





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