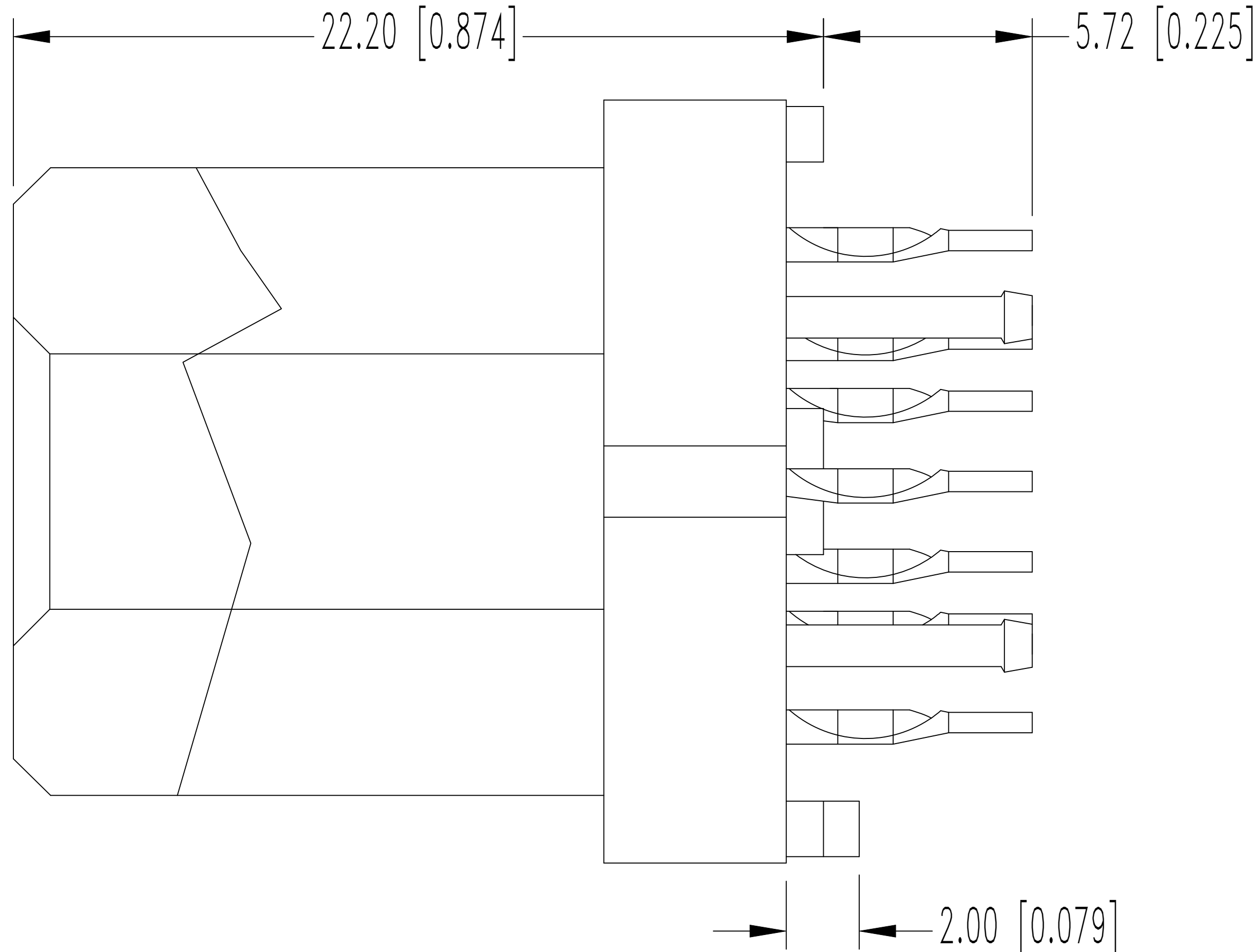
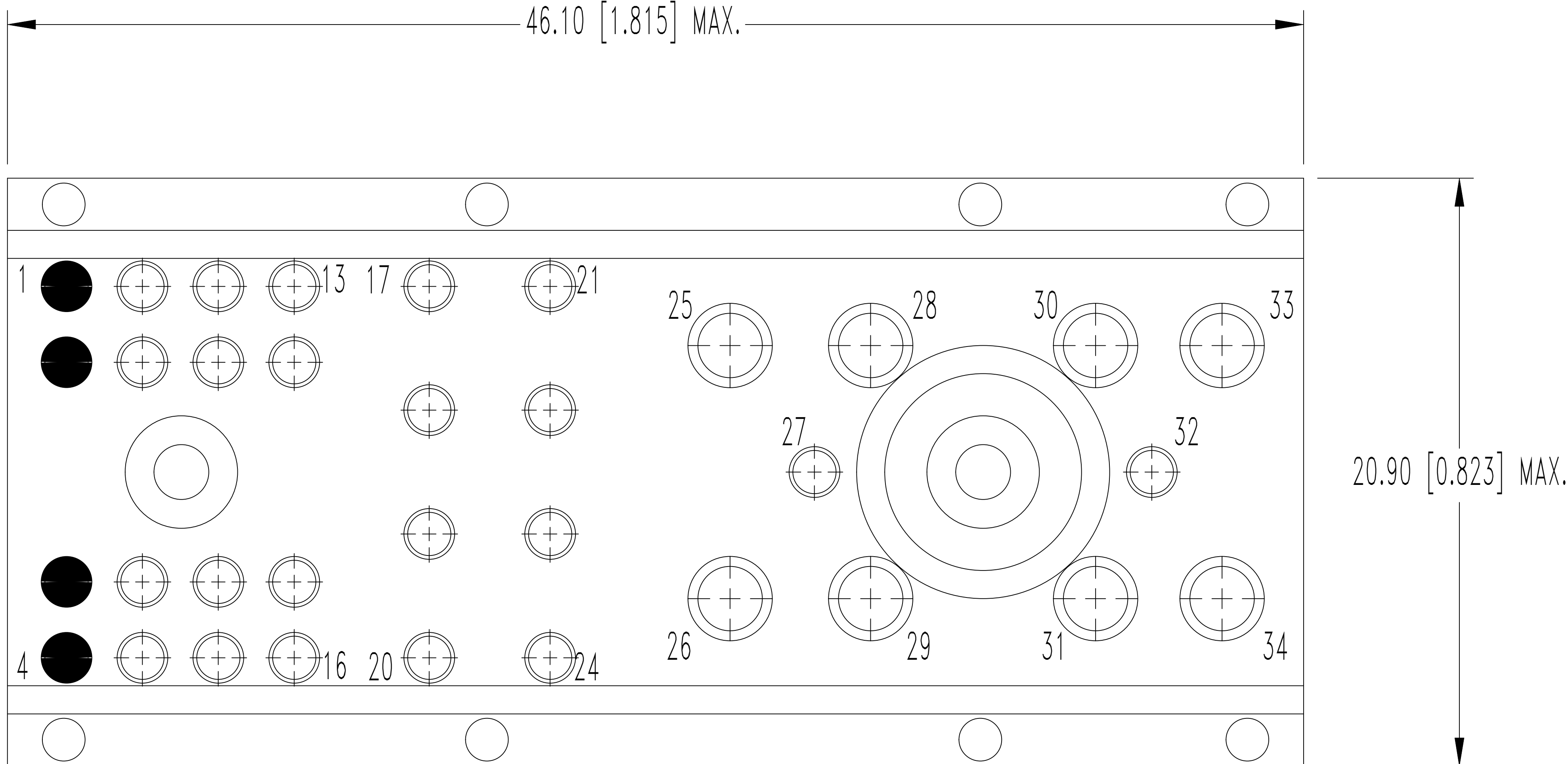


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SK6138 SHEET 1 OF 2

DATE	REV	REVISION	RECORD	APP	DR	CK
4-12 05	NC	ECO	23942	TK	YK	TK
7-27 05	A	ECO	24419	RCW	LO	TK
10-10 05	B	ECO	24814	TK	TH	TK
2-27 06	C	ECO	25562		ME	



NOTES:

## 1. MATERIALS AND FINISHES:

INSULATOR: GLASS FILLED POLYESTER, UL 94V-0. COLOR: BLUE.

SIZE 16 CONTACTS: HIGH CONDUCTIVITY PRECISION MACHINED  
COPPER ALLOY WITH GOLD FLASH OVER NICKEL.

SIZE 22 CONTACTS: PRECISION MACHINED COPPER ALLOY  
WITH GOLD FLASH OVER NICKEL.

OPTIONAL CONTACT PLATING C1: 0.80u [0.000030 INCH] GOLD OVER NICKEL.

## 2. ELECTRICAL CHARACTERISTICS:

CONTACT CURRENT RATING, PER UL 1977.

SEE TEMPERATURE RISE CURVE IN CATALOG FOR DETAILS.

SIZE 16 POWER CONTACTS: 30 AMPERES CONTINUOUS, ALL CONTACTS UNDER LOAD.

SIZE 22 SIGNAL CONTACTS: 2 AMPERES NOMINAL RATING.

INITIAL CONTACT RESISTANCE: TERMINATION TO TERMINATION

SIZE 16 CONTACTS: 0.0022 ohms MAXIMUM.

SIZE 22 CONTACTS: 0.0085 ohms MAXIMUM, PER IEC 512-2 Test 2b.

INSULATOR RESISTANCE: 5 G ohms PER IEC 512-2 TEST 3a.

PROOF VOLTAGE:

CONTACTS 5-16: 1,000 V r.m.s.

CONTACTS 17-34: 2,000 V r.m.s.

CREEPAGE AND CLEARANCE DISTANCE; MINIMUM:

CONTACTS POSITIONS 5-16 TO ANY OTHER CONTACT WITHIN THIS GROUP: 0.7mm [0.028 inch]

CONTACTS POSITIONS 17-24 TO ANY OTHER CONTACT WITHIN THIS GROUP: 2.5mm [0.098 inch]

CONTACTS POSITIONS 25-34 TO ANY OTHER CONTACT WITHIN THIS GROUP: 1.4mm [0.055 inch]

CONTACTS POSITIONS 13-16 TO 17-20: 3.0 mm [0.055 inch].

CONTACTS POSITIONS 21-24 TO 25,26: 4.0 mm [0.15/ inch].

CONTACTS POSITIONS 25, 26 TO 27-29: 2.0mm | 0.079 inch |.

3. WORKING TEMPERATURE:  $-55^{\circ}\text{C}$  TO  $+125^{\circ}\text{C}$ .

4. CONTACTS 17-34 COMPLY WITH THE "TEST FINGER" REQUIREMENTS (FIGURE 2A) AS STATED IN UL 60950, 2.1.1.1 "ACCESS TO ENERGIZED PARTS."

5. POSITIONS 1, 2, 3, 4 ARE NOT POPULATED AND RESERVED FOR FUTURE USE.

6. CONNECTOR CAN BE SUPPLIED WITH POSITIONS 17-24 UNPOPULATED WHEN ANALOG TESTS CIRCUITS ARE NOT USED. THIS WILL PROVIDE A COST SAVINGS. PART NUMBER VPB22W8F9300A1.

7. USES 2X PHILLIPS PAN HEAD SELF-TAPPING SCREW, 2-28 TRIPLASK II TRILOBULAR THREADS OR EQUIVALENT. INSTALL SCREWS TO A DEPTH OF 3mm MINIMUM, 5mm MAXIMUM.

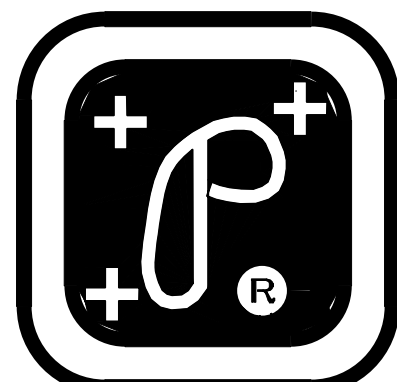
8. USE TOOL NUMBER 9513-308-1-41 TO INSTALL CONNECTOR.

9. CONNECTORS ARE ROHS COMPLIANT PER ROHS DIRECTIVE 2002/95/EC OF 27 JAN 2003.

10. DIMENSIONS ARE IN MILLIMETERS [INCHES].

CONTACT NUMBER	CIRCUIT	SEQUENTIAL MATING
1-16	HARDWARE MANAGEMENT	BEFORE ENABLE
17-24	ANALOG TEST	BEFORE ENABLE
26	LOGIC GROUND	FIRST
25	EMI CHASSIS GROUND	FIRST
29	VRTN_B	FIRST
28	VRTN_A	FIRST
27	ENABLE_B	LAST
32	ENABLE_A	LAST
31	-48V_EARLY_B	FIRST
30	-48V_EARLY_A	FIRST
34	-48V_B	THIRD (2.5mm MINIMUM TO ENABLE)
33	-48V_A	SECOND

ALL FIRST MATE CONTACTS ENGAGE PRIOR TO SHEILDS OF ZD CONNECTOR

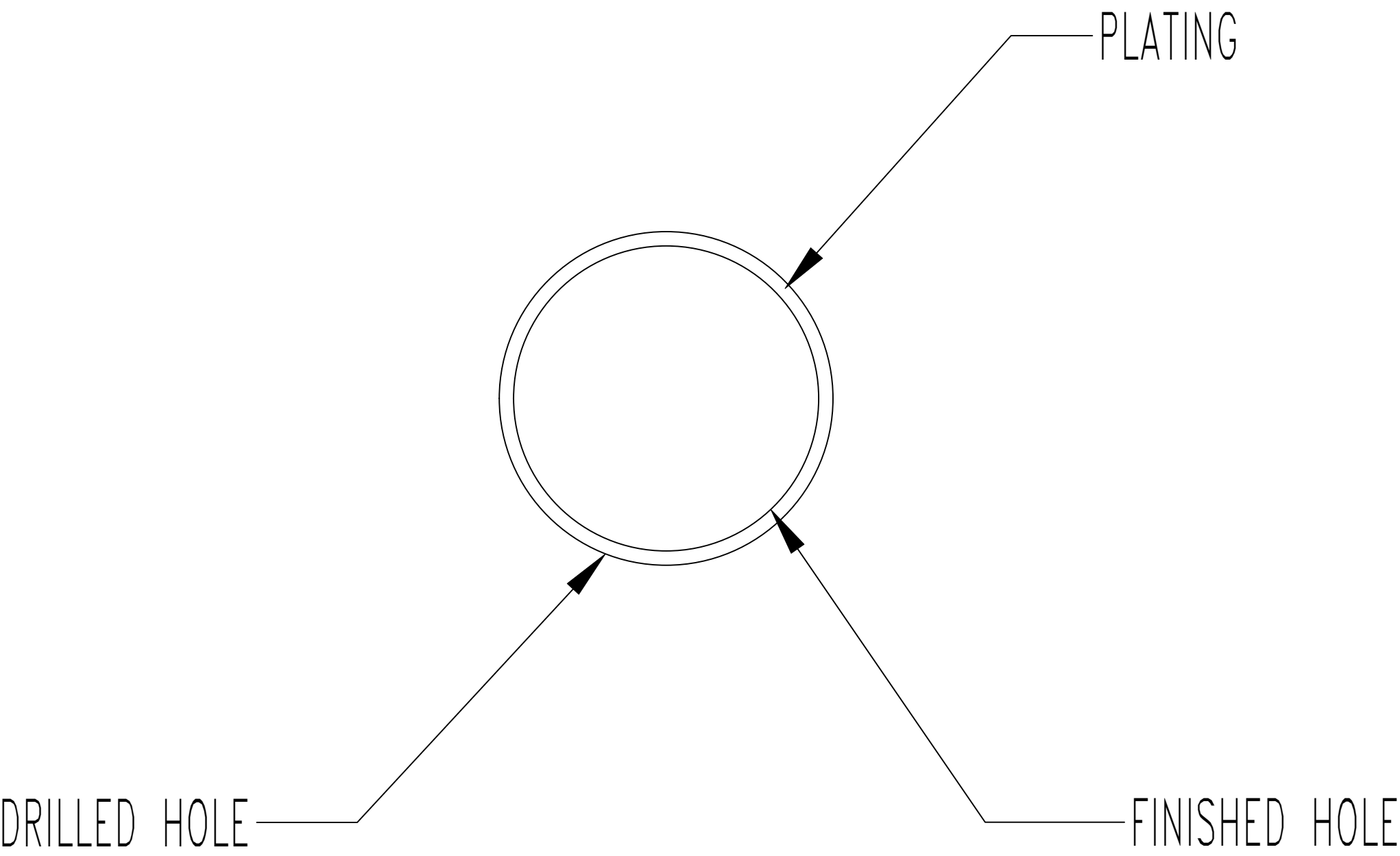


# POSITRONIC INDUSTRIES INC.

SPRINGFIELD, MISSOURI 65801

	VP SERIES		SCALE	DRAWN BY	YK
			N.T.S.	APPROVED BY	T. KEPLEY
DECIMAL TOL. $\pm 0.38$ [0.015]	TITLE				
	VPB30W8F9300A1/AA				
ANGULAR TOL. $\pm 5^\circ$	DATE	DRAWING NUMBER			REV.
	4-12-05	SK6138			SHEET 1 OF 2
					C

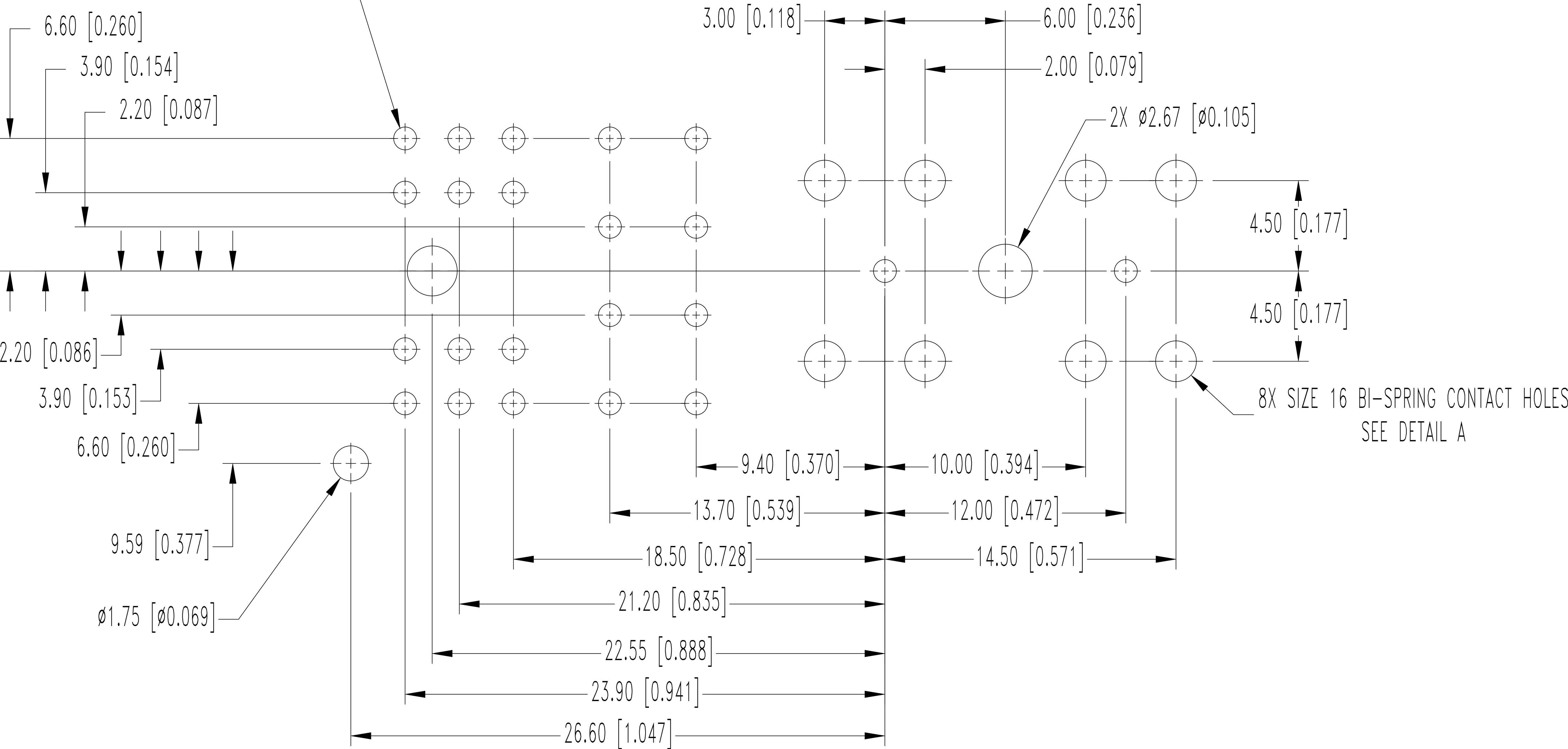
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PRESS-FIT CONTACT HOLE SEE SK6370

DETAIL A

22X SIZE 22 OMEGA CONTACT HOLES  
SEE DETAIL A



CONTACT HOLE PATTERN