RECOMMENDED MATING CARD LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X REVISION D 10/8/2018 ECN-338561

-1.00[.039] (TYP)

-1.80[.071<mark>]</mark>

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

OPTIMAL Ø0.20 .008 VIA-IN-PAD LOCATION

DETAIL 'C' **SCALE 16:1**

0.80 .031 11.00 .433

⁻Ø1.80[.071] (2 PLCS) RECOMMENDED CLEARANCE FOR M1.6 SCREW (SEE NOTE 3 & 5)

No OF

POS

-10

-20

-30

-40

 \emptyset 1.30 [.051] NPTH (2 PLCS)

(SEE NOTE 5)

CONNECTOR OUTLINE

(SEE NOTE 4)

 \overline{FIG} 1 ZA1-10-2-1.00-X-10 BOTTOM MATING PCB SHOWN (DUAL COMPRESSION)

-R0.12[.005] (TYP)

ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE EXCEPT AS SHOWN

NOTES:

1. COMPRESSION SIDE PAD PLATING TO BE 0.000762[.000030] GOLD WITH HARDNESS OF 130-200 KNOOP PER ASTM B 488 TYPE 2, GRADE C.

2. SOLDER BALL PADS TO HAVE SOLDERABLE SURFACE FINISH.

CONTACT AREA

1.85 .073

2.90 [.114]

1.00[.039] (TYP)

0.620 [.0244]

SQ (TYP)

(SEE NOTE 1 & 6)

9.00 .354

3. RECOMMENDED PLACEMENT FOR 1.587 THICK MATING PCB.

4. COMPRESSION SIDE SOLDER MASK KEEP OUT AREA.

5. SEE PRODUCT SPEC SHEET AND ZAX MATED DOCUMENT FOR HARDWARE RECOMMENDATIONS.

6. PCB PAD COPLANARITY TO BE 0.050[.002] MAX

7. IF NON-SAMTEC HARDWARE IS BEING USED, TOLERANCE STUDY MUST BE VERIFIED

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES ARE:

DECIMALS ANGLES X.X: ±0.3 [.01] X.XX: ±0.13 [.005] X.XXX: ±0.051 [.0020]

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"B"

12.30 [.484]

22.30 [.878]

36.30 [1.429]

46.30 [1.823]

TABLE 1

"A"

14.30 [.563]

24.30 [.957]

38.30 [1.508]

48.30 [1.902]

520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322

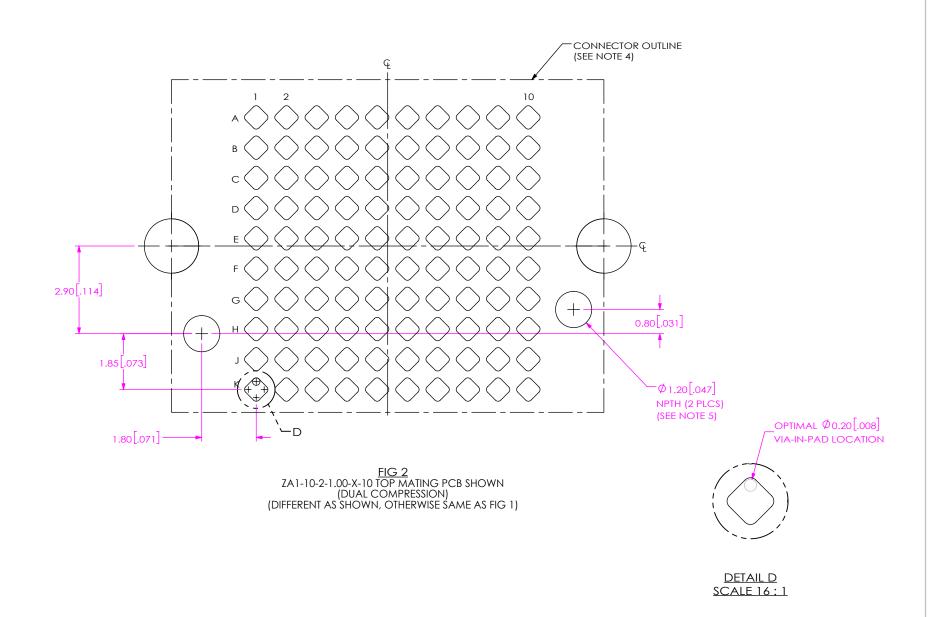
F:\dwg\misc\mktg\footprnt\ZA1-XX-X-X.XX-X-X-FOOTPRINT.SLDDRW

"C" 9.000 [.3543]

19.000 [.7480]

33.000 [1.2992]

43.000 [1.6929]



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RECOMMENDED MATING CARD LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X REVISION D (SEE TABLE 1, SHEET 1) BOTTOM MATING CARD **←** 5.00[.197] − (SEE FIG 1) \emptyset 1.80 [.071] (3 PLCS) RECOMMENDED CLEARANCE CONNECTOR OUTLINE (SEE NOTE 4) FOR M1.6 SCREW (SEE NOTE 3) EIG 3 ZA1-30-2-1.00-X-10 BOTTOM MATING PCB SHOWN (DUAL COMPRESSION) (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

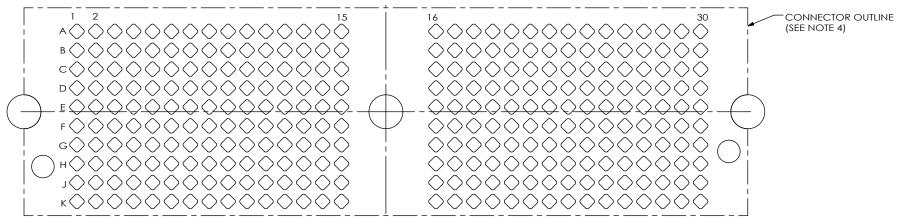


FIG 4
ZA1-30-2-1.00-X-10 TOP MATING PCB SHOWN
(DUAL COMPRESSION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2 & 3)

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RECOMMENDED MATING CARD LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X

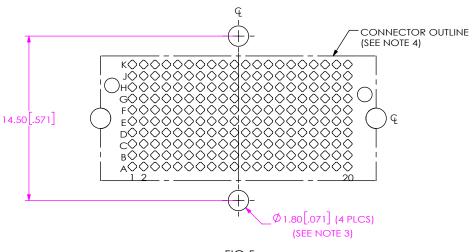
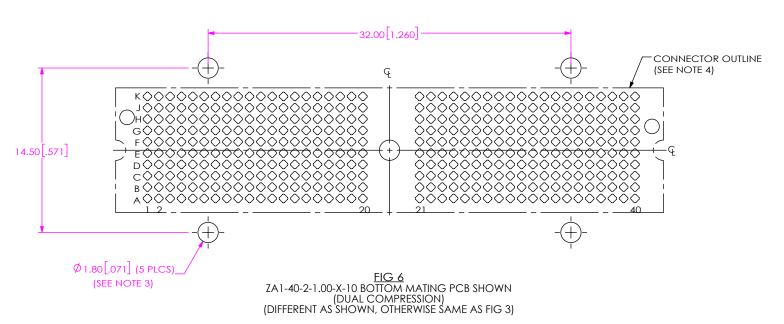


FIG 5
ZA1-20-2-1.00-X-10 BOTTOM MATING PCB SHOWN
(DUAL COMPRESSION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1 & 2)



PROPERIE LAXY N.C.)1E

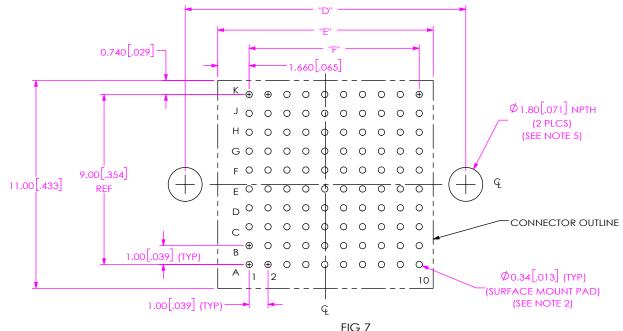
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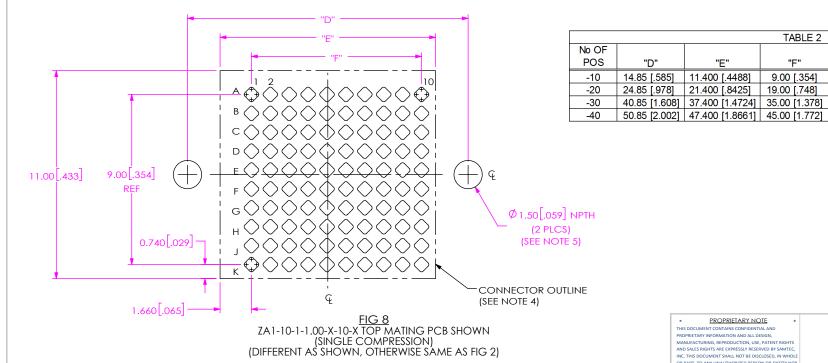
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RECOMMENDED MATING PCB LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X







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11.400 [.4488]

21.400 [.8425]

"D"

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TABLE 2

"G"

N/A

N/A

14.00 [.551]

19.00 [.748]

"F"

9.00 [.354]

35.00 [1.378]

19.00 [.748]



"H"

NΑ

NΑ

28.66 [1.128]

23.66 [.931]

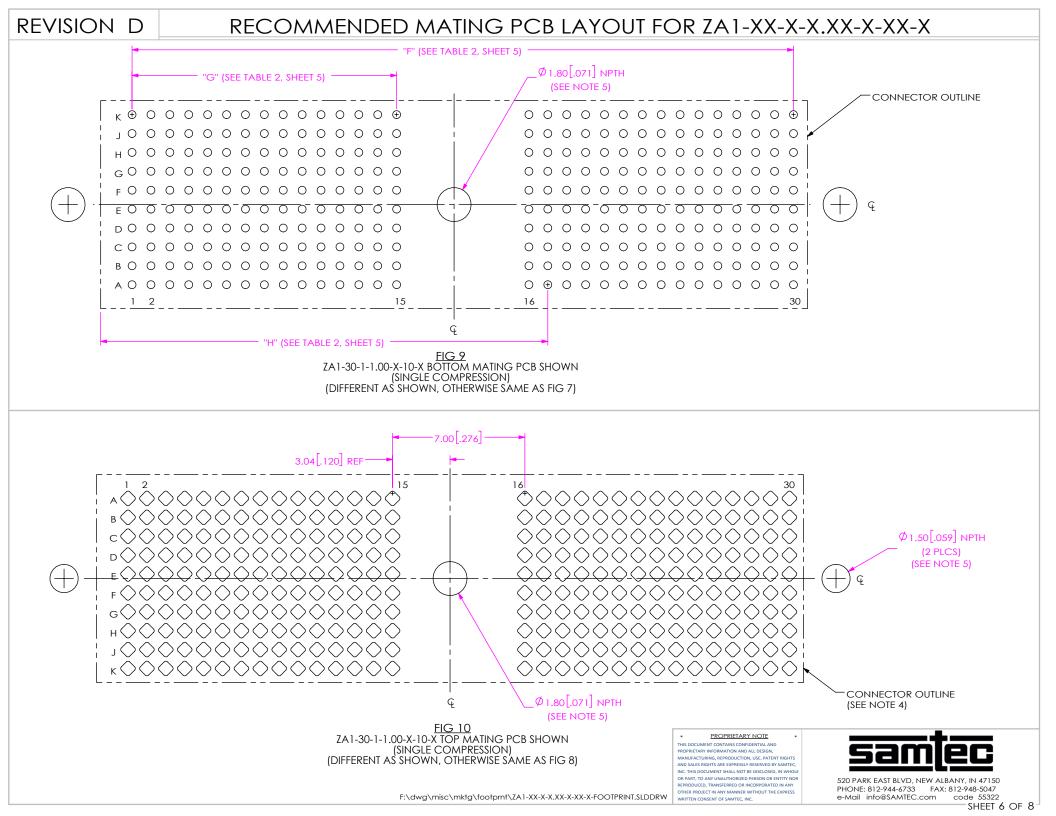
"J"

4.04 [.159]

9.04 [.356]

NΑ

NΑ



RECOMMENDED MATING PCB LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X

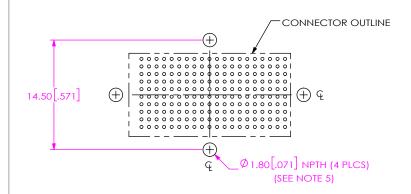
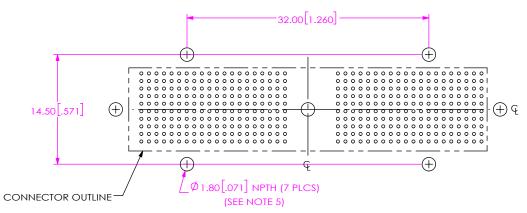


FIG. 1.1
ZA1-20-1-1.00-X-10-X BOTTOM MATING PCB SHOWN
(SINGLE COMPRESSION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 7)



EIG 13 ZA1-40-1-1.00-X-10-X BOTTOM MATING PCB SHOWN (SINGLE COMPRESSION) (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 9)

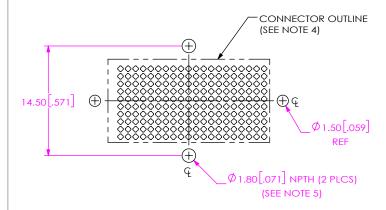


FIG. 12
ZA1-20-1-1.00-X-10-X TOP MATING PCB SHOWN
(SINGLE COMPRESSION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 8)

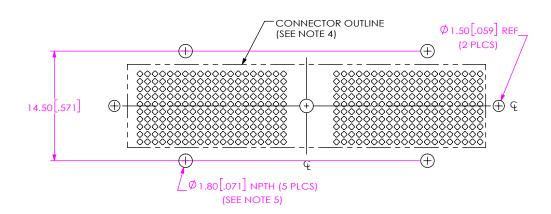


FIG. 14
ZA1-40-1-1.00-X-10-X TOP MATING PCB SHOWN
(SINGLE COMPRESSION)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 10)

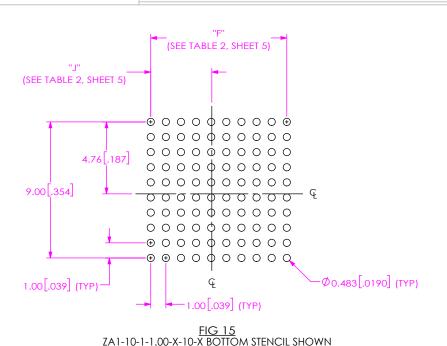
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RECOMMENDED STENCIL LAYOUT FOR ZA1-XX-X-X.XX-X-XX-X



(SINGLE COMPRESSION STENCIL)

(SEE TABLE 2, SHEET 5)

FIG 16
ZA1-20-1-1.00-X-10-X BOTTOM STENCIL SHOWN
(SINGLE COMPRESSION STENCIL)

(SEE TABLE 2, SHEET 5) 3.04 .120 REF- \oplus 0 0 0 0 0 0 0 0 0 0 0 0 \oplus 00000000000000 0000000000000 9 000000000000000 000000000000000 000000000000000 0

FIG 17
ZA1-30-1-1.00-X-10-X BOTTOM STENCIL SHOWN
(SINGLE COMPRESSION STENCIL)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG15)
(ALSO APPLIES TO ZA1-40)

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