DESIGNED & DIMENSIONED
IN MILLIMETERS [ENGLISH]
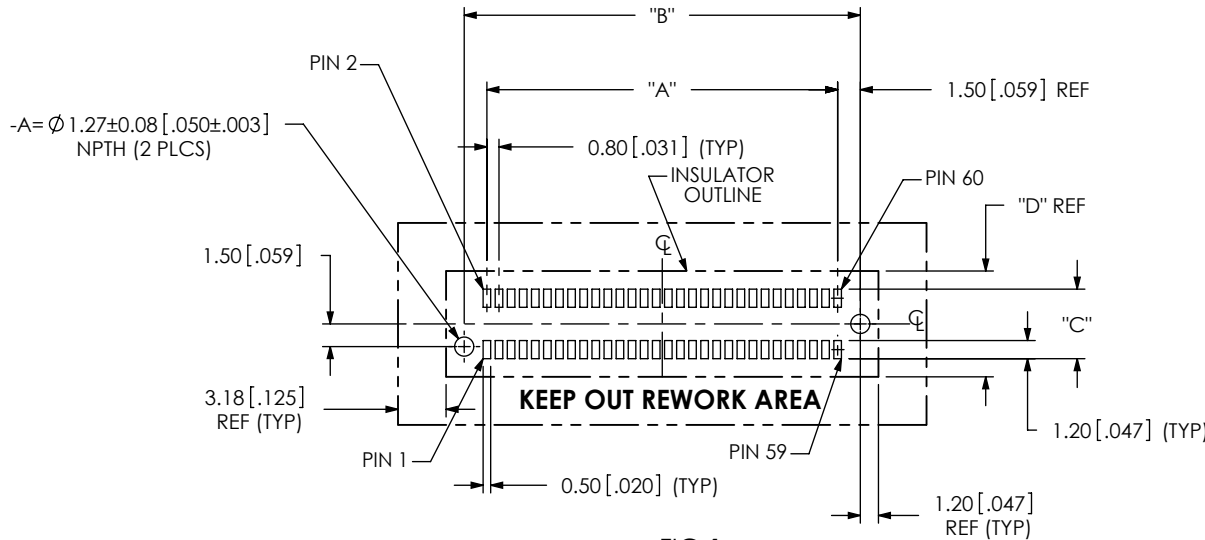

FIG 1
-30 POSITION SHOWN
USE FOR -10, *-13, -20, & -30 POSITIONS WITH -A OPTION

TABLE 1		
POSITION	"A"	"B"
-10	7.20[.283]	10.20[.402]
*-13	9.60[.378]	N/A
-20	15.20[.598]	18.20[.717]
-30	23.20[.913]	26.20[1.031]

*-13 POSITION IS ONLY AVAILABLE IN THIS FOOTPRINT WITH THE -PE OPTION

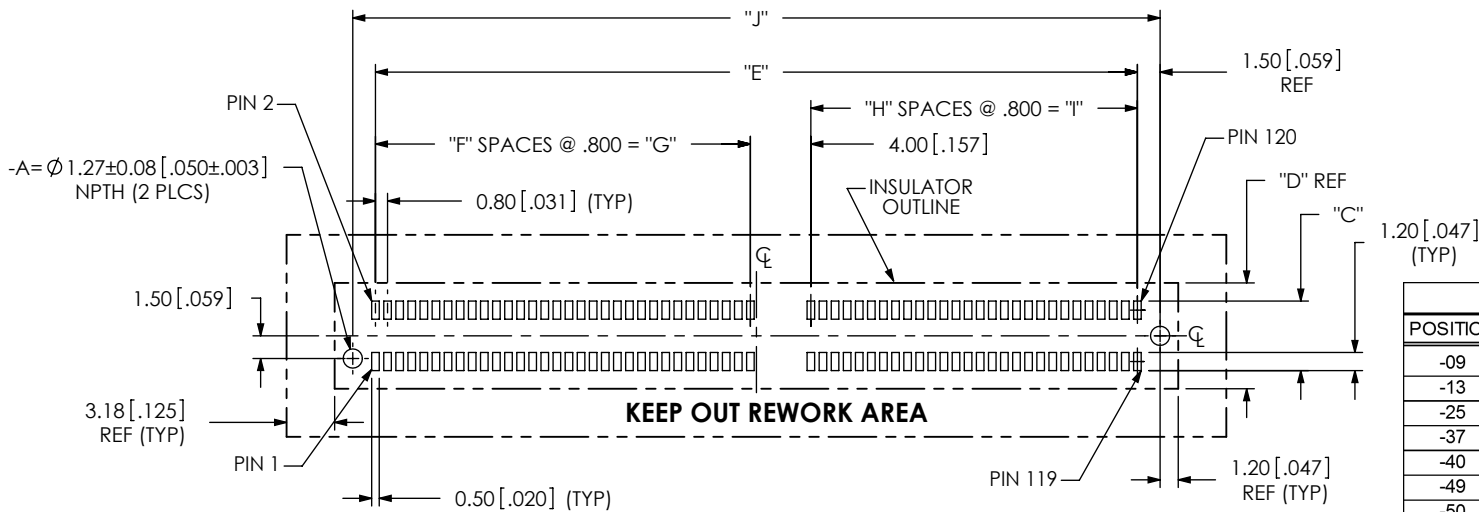| TABLE 2 (SEE NOTE 1)		
MATING CARD THICKNESS TYPE	"C"	"D"
-01	4.60[.181]	7.00[.276]
-02	5.03[.198]	7.43[.293]
-03	5.39[.212]	7.79[.307]

FIG 2
-60 POSITION SHOWN
USE FOR **-09, -13, -25, -37, -40, -49, -50, -60, -70, -80, -90, & -100 POSITIONS WITH -A OPTION
-09 OPTION ONLY AVAILABLE IN -L2

TABLE 3						
POSITION	"E"	"F"	"G"	"H"	"I"	"J"
-09	9.60[.378]	3	2.40[.094]	4	3.20[.126]	N/A
-13	12.80[.504]	5	4.00[.157]	6	4.80[.189]	15.80[.622]
-25	22.40[.882]	5	4.00[.157]	18	14.40[.567]	25.40[1.000]
-37	32.00[1.260]	20	16.00[.630]	15	12.00[.472]	35.00[1.378]
-40	34.40[1.354]	21	16.80[.661]	17	13.60[.535]	37.40[1.472]
-49	41.60[1.354]	26	20.80[.819]	21	16.80[.661]	44.60[1.756]
-50	42.40[1.669]	26	20.80[.819]	22	17.60[.693]	45.40[1.787]
-60	50.40[1.984]	31	24.80[.976]	27	21.60[.850]	53.40[2.102]
-70	58.40[2.299]	31	24.80[.976]	37	29.60[1.165]	61.40[2.417]
-80	66.40[2.614]	31	24.80[.976]	47	37.60[1.480]	69.40[2.732]
-90	74.40[2.929]	31	24.80[.976]	57	45.60[1.795]	77.40[3.047]
-100	82.40[3.244]	31	24.80[.976]	67	53.60[2.110]	85.40[3.362]

NOTES
1. POSITIONS -09, -13, -25, -37 & -49 ONLY AVAILABLE WITH -01 CARD THICKNESS.
2. POSITIONS -70, -80, -90 & -100 ONLY AVAILABLE WITH -01 & -03 CARD THICKNESS.

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TOLERANCES ARE:	
DECIMALS	ANGLES
X: ± .3[.01]	2°
XX: ± .10[.004]	
XXX: ± .05[.0020]	

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SHEET 1 OF 9

-WT & -BL = Ø 0.84±0.08 [.033±.003]
PTH (2 PLCS)
(TO BE SOLDERED USING
PASTE-IN-HOLE TECHNOLOGY)

"K"

C_L

C_L

KEEP OUT REWORK AREA
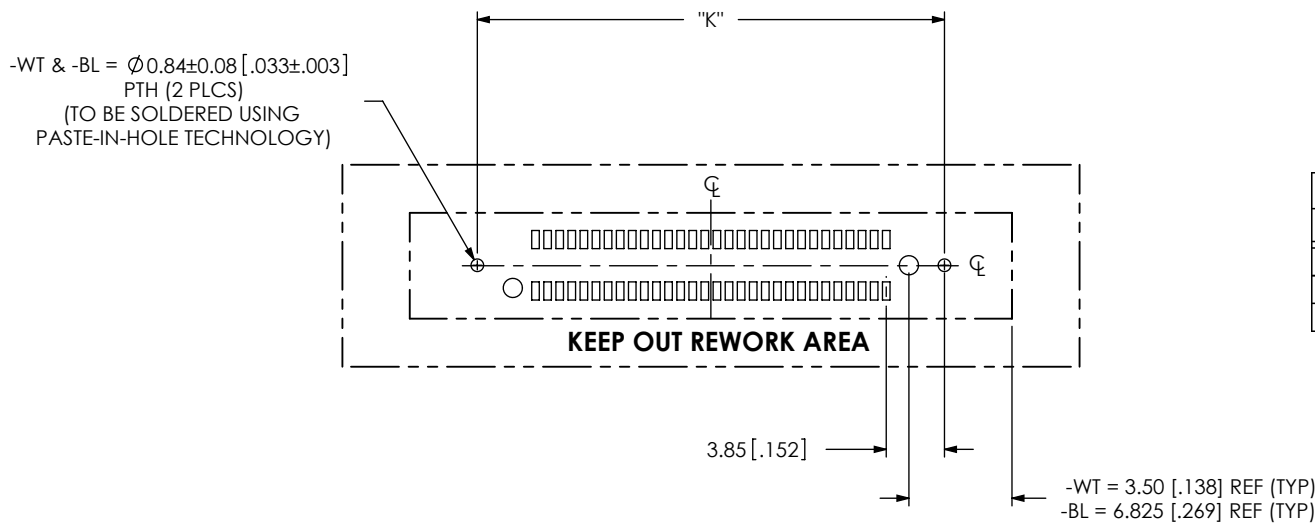
TABLE 4	
POSITION	"K"
-10	14.90[.587]
-20	22.90[.902]
-30	30.90[1.220]

3.85 [.152]

-WT = 3.50 [.138] REF (TYP)
-BL = 6.825 [.269] REF (TYP)

FIG 3
-30 POSITION SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
USE FOR -10, -20 OR -30 POSITIONS WITH -WT &-BL OPTION
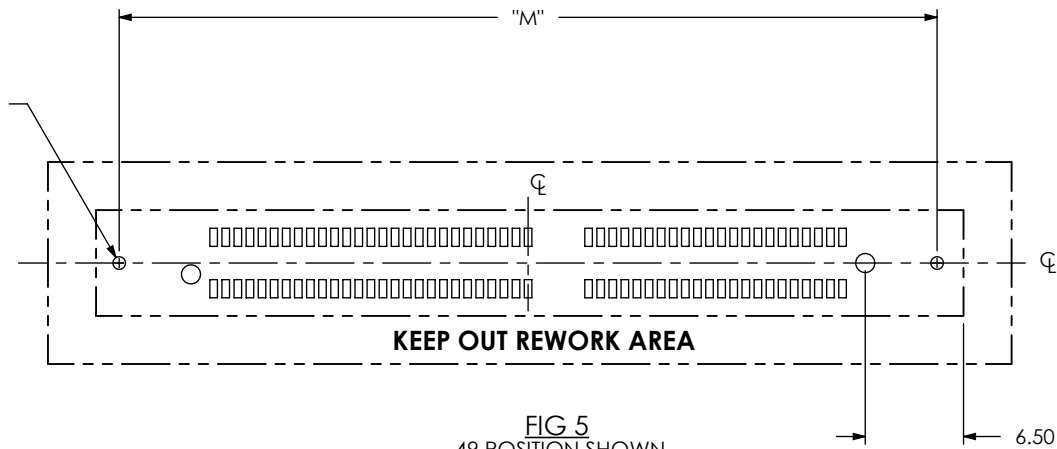**-BL TYPE ONLY AVAILABLE WITH -01 CARD**
-WT TYPE ONLY AVAILABLE WITH -01 & -03 CARD
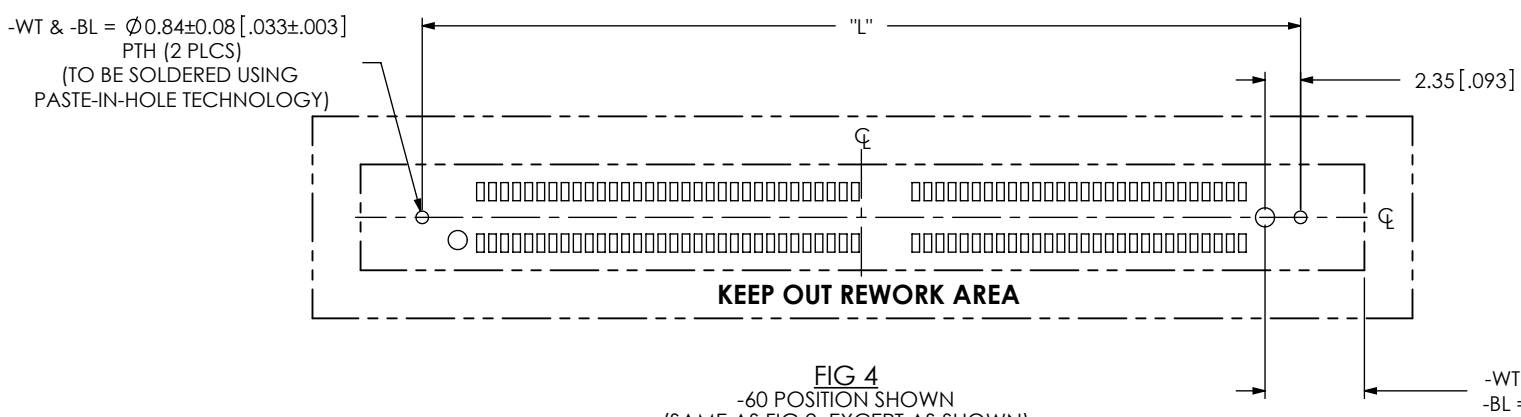
TABLE 5	
POSITION	"L"
-09	17.30 [0.681]
-13	20.50 [0.807]
-25	30.10 [1.185]
-37	39.70 [1.563]
-40	42.10 [1.657]
-49	49.30 [1.941]
-50	50.10 [1.972]
-60	58.10 [2.287]
-70	66.10 [2.602]
-80	74.10 [2.917]
-90	82.10 [3.232]
-100	90.10 [3.547]

-WT & -BL = Ø 0.84±0.08 [.033±.003]
PTH (2 PLCS)
(TO BE SOLDERED USING
PASTE-IN-HOLE TECHNOLOGY)

"L"

2.35 [.093]

C_L

C_L

KEEP OUT REWORK AREA

FIG 4
-60 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -09, -13, -25, -37, -40, -49, -50, -60, -70, -80, -90 & -100 POSITIONS WITH -WT & -BL OPTION
-BL TYPE ONLY AVAILABLE WITH -01 CARD
-WT TYPE ONLY AVAILABLE WITH -01 & -03 CARD

-WT = 3.50 [.138] REF (TYP)
-BL = 6.825 [.269] REF (TYP)

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-L = Ø0.84±0.08 [.033±.003]
PTH (2 PLCS)
(TO BE SOLDERED USING
PASTE-IN-HOLE TECHNOLOGY)

"M"

C̶L

C̶L

KEEP OUT REWORK AREA

6.50 [.256] REF (TYP)

TABLE 6	
POSITION	"M"
-13	25.30 [0.996]
-25	34.90 [1.374]
-37	44.50 [1.752]
-49	54.10 [2.130]

FIG 5
-49 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -13, -25, -37 & -49 POSITIONS WITH -L OPTION
-L TYPE ONLY AVAILABLE WITH -01 CARD

"N"

"O" NPTH

C̶L

1.90 [.075] NPTH

C̶L

KEEP OUT REWORK AREA

1.20 [.047] REF (TYP)
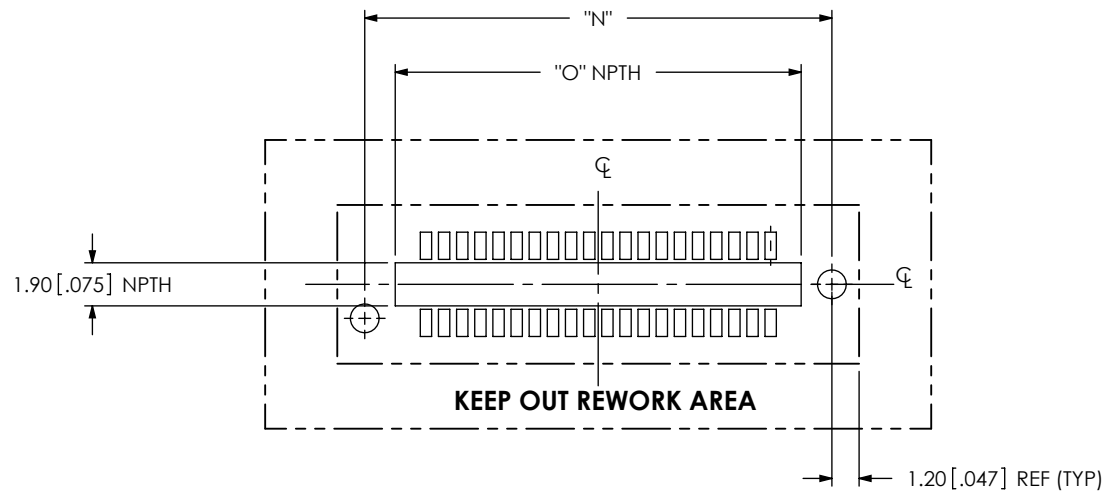
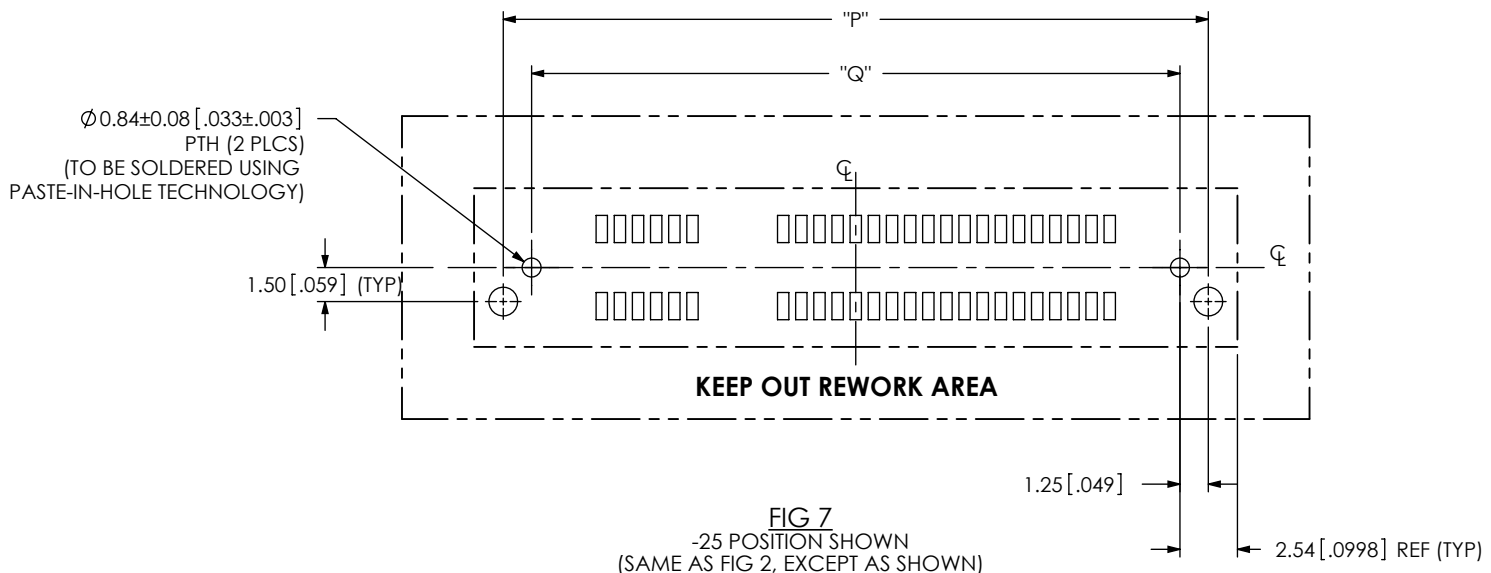| TABLE 7		
POSITION	"N"	"O"
-10	12.60 [0.496]	9.90 [0.390]
-13	15.00 [0.591]	12.30 [0.484]
-20	20.60 [0.811]	17.90 [0.705]

FIG 6
-20 POSITION SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
USE FOR -10, 13, OR -20 POSITIONS WITH -PE OPTION
-PE TYPE ONLY AVAILABLE WITH -01 CARD

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TABLE 8		
POSITION	"P"	"Q"
-09	18.29 [0.720]	15.79 [0.622]
-13	21.49 [0.846]	18.99 [0.748]
-25	31.09 [1.224]	28.59 [1.126]
-49	50.29 [1.980]	47.79 [1.881]

Ø0.84±0.08 [.033±.003]
PTH (2 PLCS)
(TO BE SOLDERED USING
PASTE-IN-HOLE TECHNOLOGY)

"P"

"Q"

1.50 [.059] (TYP)

KEEP OUT REWORK AREA

1.25 [.049]

2.54 [.0998] REF (TYP)

FIG 7
-25 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -09, -13, -25, OR -49 POSITIONS WITH -L2 OPTION
-L2 TYPE ONLY AVAILABLE WITH -01 CARD

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NOTE: STENCIL TO BE 0.15[.006] THICK.

TABLE 9	
POSITION	"R"
-13	25.30 [.504]
-25	34.90 [1.374]
-37	44.50[1.752]
-49	54.10 [2.130]

"R"

-L OPTION
Ø2.54[.100]
(2 PLCS)

CL

CL
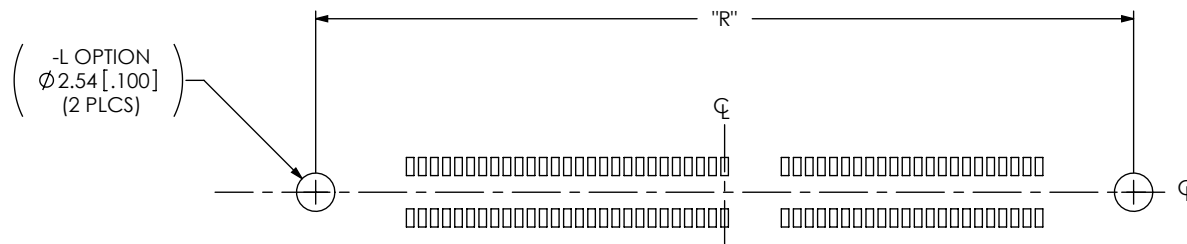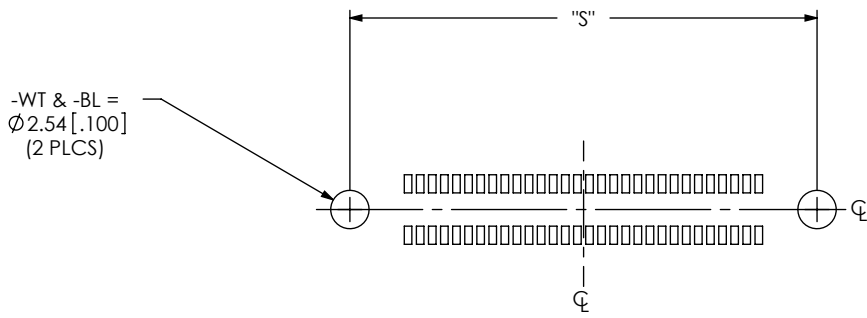
FIG 8
-49 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -13, -25, -37 & -49 POSITIONS
-L TYPE ONLY AVAILABLE WITH -01 CARD

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NOTE: STENCIL TO BE 0.15[.006] THICK.

-WT & -BL =
Ø2.54[.100]
(2 PLCS)

"S"

TABLE 10	
POSITION	"S"
-10	14.90[.587]
-20	22.90[.902]
-30	30.90[1.217]

FIG 9
-30 POSITION SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
USE FOR -10, -20 OR -30 POSITIONS WITH -WT & -BL OPTION
-BL TYPE ONLY AVAILABLE WITH -01 CARD
-WT TYPE ONLY AVAILABLE WITH -01 & -03 CARD

-WT & -BL = Ø2.54[.100]
(2 PLCS)

"T"
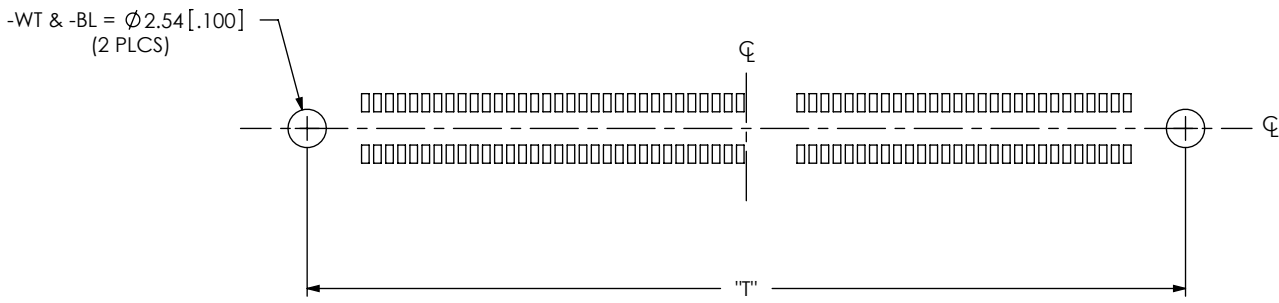
TABLE 11	
POSITION	"T"
-09	17.30 [0.681]
-13	20.50 [0.807]
-25	30.10 [1.185]
-37	39.70 [1.563]
-40	42.10 [1.657]
-49	49.30 [1.941]
-50	50.10 [1.972]
-60	58.10 [2.287]
-70	66.10 [2.602]
-80	74.10 [2.917]
-90	82.10 [3.232]
-100	90.10 [3.547]

FIG 10
-60 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -09, -13, -25, -37, -40, -49, -50, -60, -70, -80, -90 & -100 POSITIONS WITH -WT & -BL OPTION
-BL TYPE ONLY AVAILABLE WITH -01 CARD
-WT TYPE ONLY AVAILABLE WITH -01 & -03 CARD

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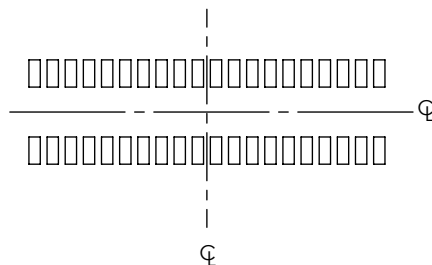
NOTE: STENCIL TO BE 0.15[.006] THICK.

FIG 11
-20 POSITION SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
USE FOR -10, 13, OR -20 POSITIONS WITH -PE OPTION
-PE TYPE ONLY AVAILABLE WITH -01 CARD

∅2.54[.100] (2 PLCS)

0.93[.037]
(TYP)

45.00° (TYP)

"U"

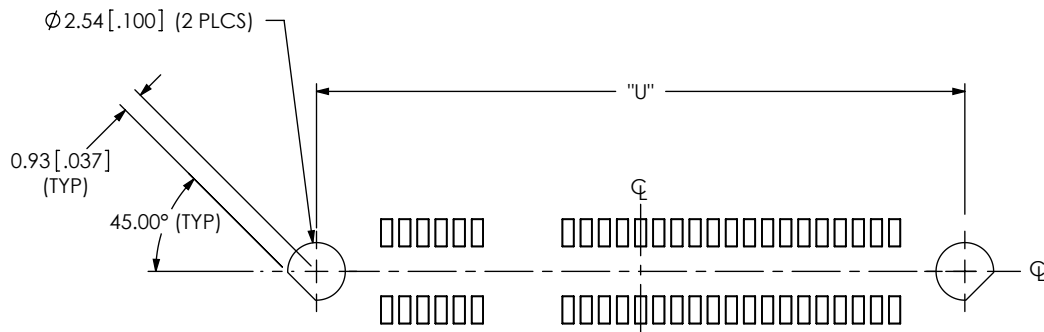| TABLE 12	
POSITION	"U"
-09	15.79 [0.622]
-13	18.99 [0.748]
-25	28.59 [1.126]
-49	47.79 [1.881]

FIG 12
-25 POSITION SHOWN
(SAME AS FIG 2, EXCEPT AS SHOWN)
USE FOR -09, -13, -25, OR -49 POSITIONS WITH -L2 OPTION
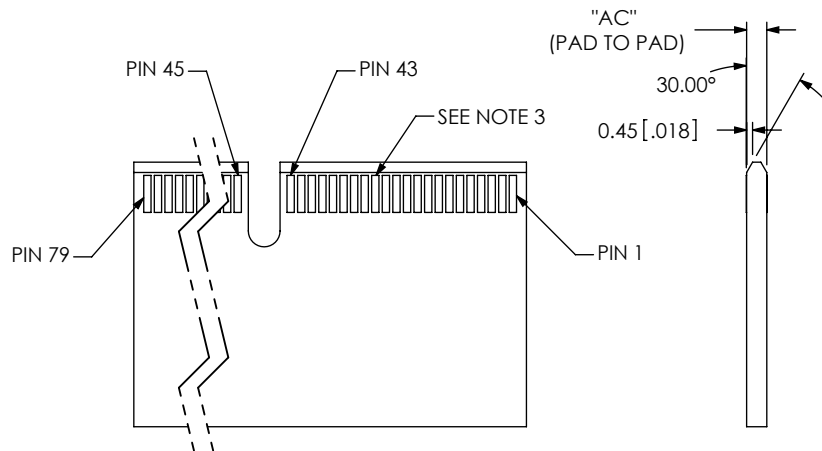**-L2 TYPE ONLY AVAILABLE WITH -01 CARD**

PIN 45
PIN 43
SEE NOTE 3
PIN 79
PIN 1

"AC"
(PAD TO PAD)
30.00°
0.45 [.018]

DESIGNED & DIMENSIONED
IN MILLIMETERS [ENGLISH]

DETAIL 'A'
SCALE 4 : 1

'A'

SEE NOTE 5

"Y" ±0.100 [.0039]
"V" ±0.025 [.0010]
"Z"
1.03±0.13 [.040±.005]
"W" SPACES @ .800 = "X"
0.800 [.031] (TYP)
2.400 [.094] (SEE NOTE 1)
4.00 [.157]
3.80±0.20 [.150±.008]
2.80±0.20 [.110±.008]
6.40±0.13 [.252±.005]
PIN 2
0.550 [.0217] (TYP)
PIN 44
PIN 46
PIN 80

FIG 13
-40 POSITION SHOWN

"AA"
7.78±0.13 [.306±.005]
PIN 2
PIN 80
6.00±0.13 [.236±.005] (TYP)
14.84 [.584]
8.78±0.13 [.346±.005]
PIN 44
PIN 46
R0.40 [.016]
R1.00±0.13 [.039±.005] (4 PLCS)
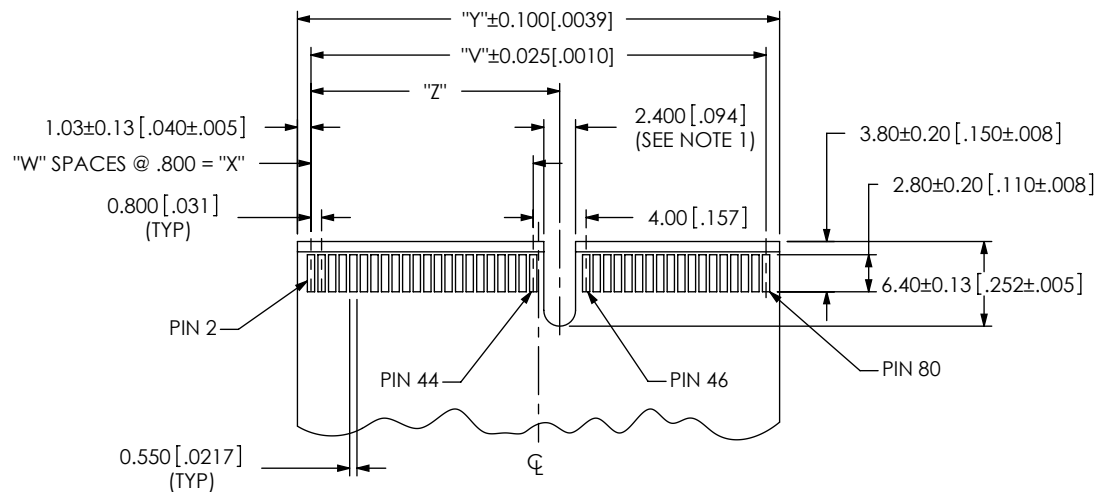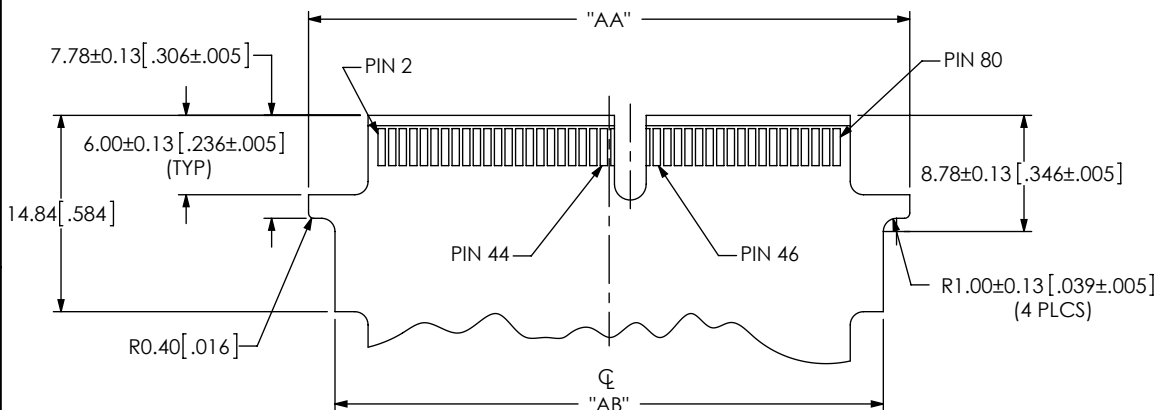"AB"

FIG 14
-40 POSITION WITH -BL OPTION SHOWN
(SAME AS FIG 13, EXCEPT AS SHOWN)

NOTES:

1. -10, -20 AND -30 CARDS HAVE NO SLOT.
2. ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.
3. PLATING TO BE .000030 INCHES GOLD WITH A HARDNESS OF 130-200 KNOOP PER ASTM B 488 TYPE 2, GRADE C.
4. NOTE DELETED.
5. FOR PROPER CONTACT REGISTRATION, PLATING BUS TIES TO BE THE WIDTH OF THE EDGE FINGER.

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AH

				TABLE 13			
POSITION	"V"	"W"	"X"	"Y"	"Z"	"AA"	"AB"
-09	9.60 [0.378]	3	2.40 [0.094]	11.65 [0.459]	4.40 [0.173]	20.65 [0.813]	16.65 [0.656]
-10	7.20 [0.283]	N/A	N/A	9.25 [0.364]	N/A	18.25 [0.719]	14.25 [0.561]
-13	12.80 [0.504]	5	4.00 [0.157]	14.85 [0.585]	6.00 [0.236]	23.85 [0.939]	19.85 [0.781]
-20	15.20 [0.598]	N/A	N/A	17.25 [0.679]	N/A	26.25 [1.033]	22.25 [0.876]
-25	22.40 [0.882]	5	4.00 [0.157]	24.45 [0.963]	6.00 [0.236]	33.45 [1.317]	29.45 [1.159]
-30	23.20 [0.913]	N/A	N/A	25.25 [0.994]	N/A	34.25 [1.348]	30.25 [1.191]
-37	32.00 [1.260]	20	16.00 [0.630]	34.05 [1.341]	18.00 [0.709]	43.05 [1.695]	39.05 [1.537]
-40	34.40 [1.354]	21	16.80 [0.661]	36.45 [1.435]	18.80 [0.740]	45.45 [1.789]	41.45 [1.632]
-49	41.60 [1.638]	26	20.80 [0.819]	43.65 [1.719]	22.80 [0.898]	52.65 [2.073]	48.65 [1.915]
-50	42.40 [1.669]	26	20.80 [0.819]	44.45 [1.750]	22.80 [0.898]	53.45 [2.104]	49.45 [1.947]
-60	50.40 [1.984]	31	24.80 [0.976]	52.45 [2.065]	26.80 [1.055]	61.45 [2.419]	57.45 [2.262]
-70	58.40 [2.299]	31	24.80 [0.976]	60.45 [2.380]	26.80 [1.055]	69.45 [2.734]	65.45 [2.577]
-80	66.40 [2.614]	31	24.80 [0.976]	68.45 [2.695]	26.80 [1.055]	77.45 [3.049]	73.45 [2.892]
-90	74.40 [2.929]	31	24.80 [0.976]	76.45 [3.010]	26.80 [1.055]	85.45 [3.364]	81.45 [3.207]
-100	82.40 [3.244]	31	24.80 [0.976]	84.45 [3.325]	26.80 [1.055]	93.45 [3.679]	89.45 [3.522]

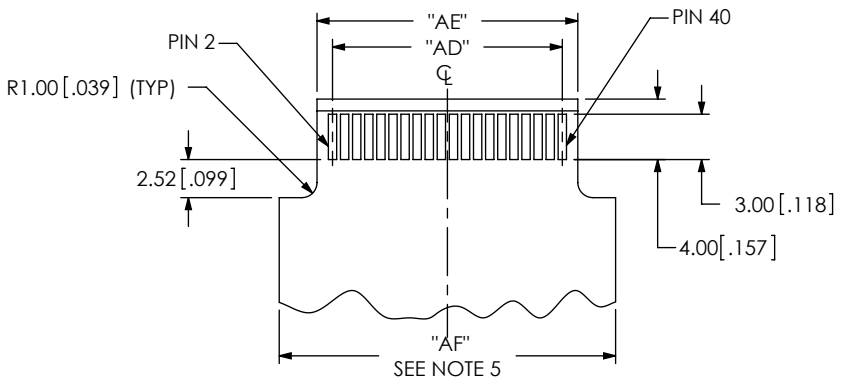| TABLE 14	
MATING CARD THICKNESS TYPE	"AC"
-01	1.570 [0.062] ± 0.157 [0.0062]
-02	2.000 [0.079] ± 0.157 [0.0062]
-03	2.360 [0.093] ± 0.157 [0.0062]
*-04	3.180 [0.125] ± 0.157 [0.0062]

*= NOT TOOLED

FIG 15
-20 POSITION SHOWN
(SAME AS FIG 13 EXCEPT AS SHOWN)
**USE FOR -10, -13, OR -20 POSITIONS WITH -PE OPTION
WITH CUTOUTS IN THE BOARD, TOP ENTRY**

R1.00 [.039] (TYP)
2.52 [.099]
"AE"
"AD"
PIN 2
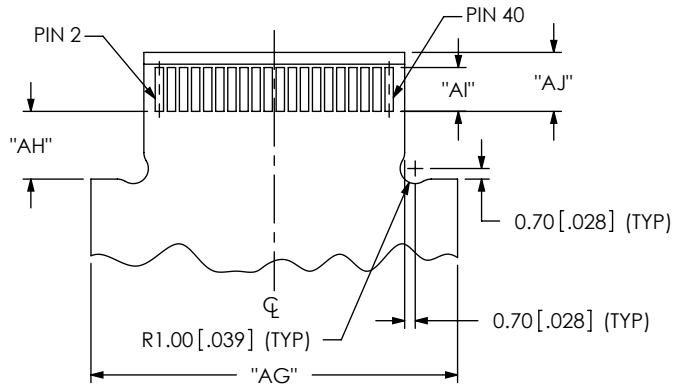PIN 40
3.00 [.118]
4.00 [.157]
"AF"
SEE NOTE 5

SEE NOTE 5

FIG 16
-20 POSITION SHOWN
(SAME AS FIG 15 EXCEPT AS SHOWN)
**USE FOR -10, 13, OR -20 POSITIONS WITH -PE OPTION
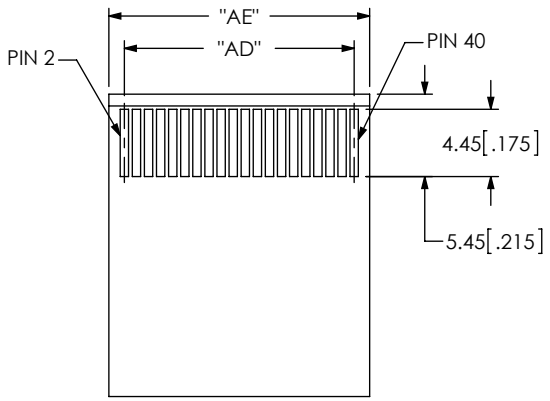WITH CUTOUTS IN THE BOARD, BOTTOM ENTRY**

PIN 2
PIN 40
"AI"
"AJ"
"AH"
0.70 [.028] (TYP)
0.70 [.028] (TYP)
R1.00 [.039] (TYP)
"AG"

TABLE 16

SUBSRATE THICKNESS	"AH"	"AI"	"AJ"
1.57 [.062]	4.48 [0.176]	2.90 [0.114]	3.90 [0.154]
2.36 [.093]	5.33 [0.210]	3.05 [0.120]	4.05 [0.159]
3.18 [.125]	6.20 [0.244]	3.20 [0.126]	4.20 [0.165]

FIG 17
-20 POSITION SHOWN
(SAME AS FIG 13, EXCEPT AS SHOWN)
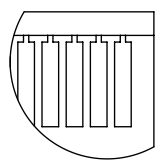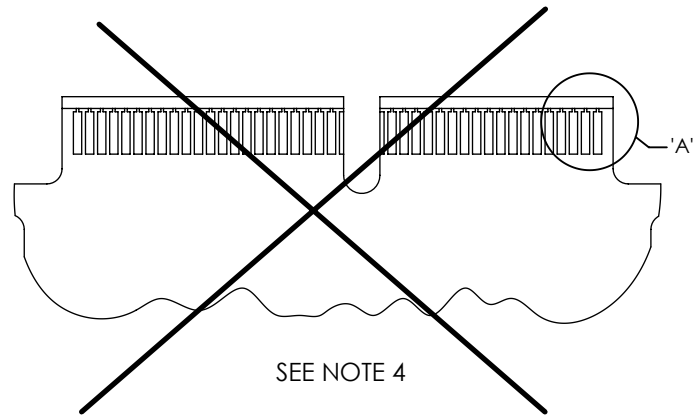**USE FOR -10, 13, OR -20 POSITIONS WITH -PE OPTION
WITHOUT CUTOUTS IN THE BOARD**

"AE"
"AD"
PIN 2
PIN 40
4.45 [.175]
5.45 [.215]

DETAIL 'A'
SCALE 4 : 1

'A'

SEE NOTE 4

TABLE 15

POSITION	"AD"	"AE"	"AF"	"AG"
-10	7.20 [0.283]	9.25 [0.364]	14.25 [0.561]	16.25 [0.640]
-13	9.60 [0.378]	11.65 [0.459]	16.65 [0.656]	18.65 [0.734]
-20	15.20 [0.598]	17.25 [0.679]	22.25 [0.876]	24.25 [0.955]

NOTES:

1. ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.
2. PLATING TO BE .000030 INCHES GOLD WITH A HARDNESS OF 130-200 KNOOP PER ASTM B 488 TYPE 2, GRADE C.
3. NOTE DELETED.
4. FOR PROPER CONTACT REGISTRATION, PLATING BUS TIES TO BE THE WIDTH OF THE EDGE FINGER.
5. MIN REQUIRED LENGTH.

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