

DO NOT SCALE FROM THIS PRINT

STYLE  
-DP: 4 PAIRS PER WAFER

ROWS  
-02: 2 ROW  
-03: 3 ROW  
-04: 4 ROW  
\*05: 5 ROW  
\*\*06: 6 ROW

BANKS  
-1: 1 BANK  
-2: 2 BANK  
△-3: 3 BANK

LEAD STYLE  
-05.0: 5.0mm  
-07.0: 7.0mm

TAPE & REEL (SEE NOTES 4 & 8)  
-TR: TAPE & REEL  
-FR: FULL REEL QTY TAPE & REEL

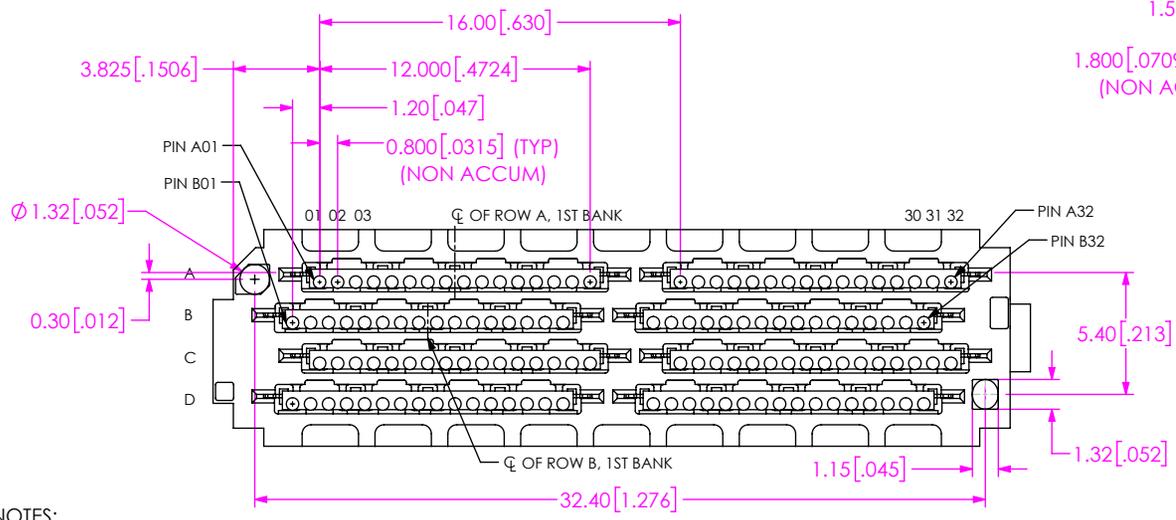
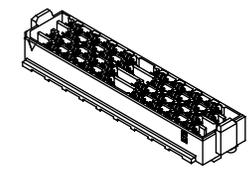
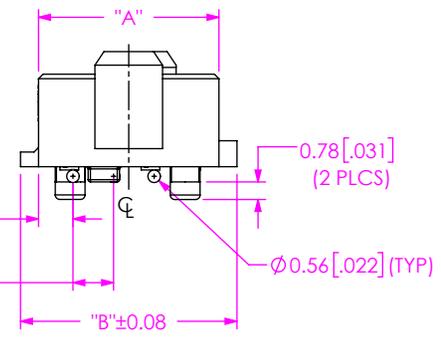
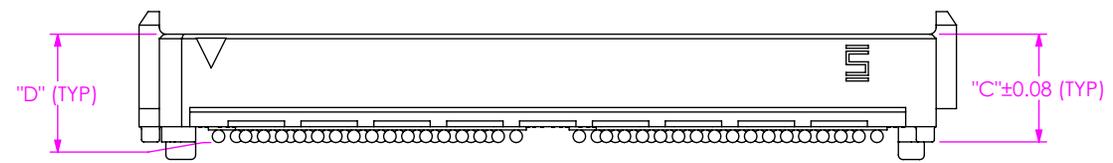
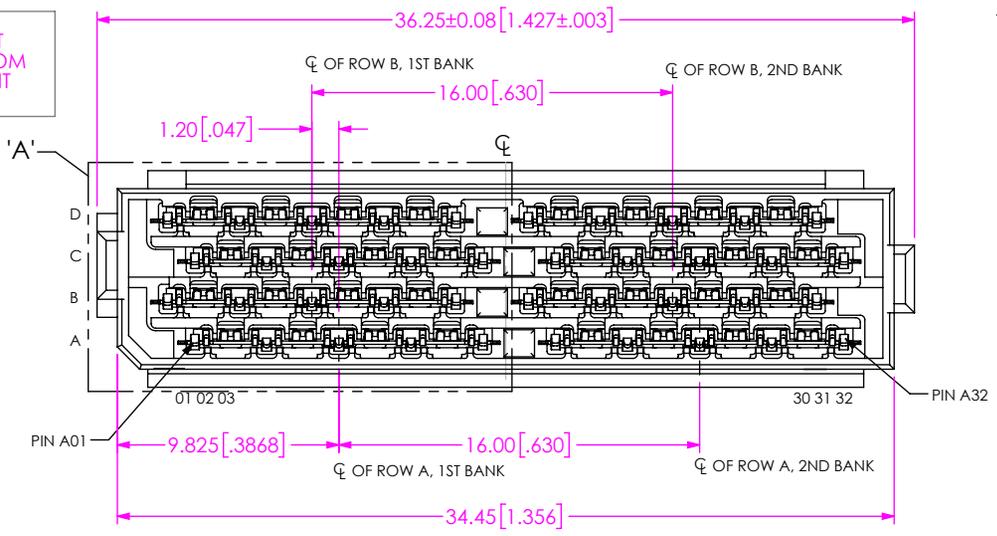
K-DOT  
-K: (SEE NOTE 5)

WELD TAB OPTION  
BLANK: NO WELD TAB  
\*\*\*-WT: WELD TAB (SEE SHT 4)

SOLDER BALL COMPOSITION  
\*-1: 63.0% TIN/37.0% LEAD  
-2: 96.5% TIN/3.0% SILVER/0.5% COPPER

PLATING  
-S: 30 μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL

(\* = NOT TOOLED)  
(\*\* = NOT TOOLED FOR -2: 2 BANK OR -3: 3 BANK)  
(\*\*\* = NOT TOOLED FOR -07.0 LEAD STYLE)  
(△ = ONLY TOOLED FOR -02/-03/-04 ROWS WITH -05.0 LEAD STYLE AND NO WELD TAB OPTION)



ROWS	"A"	"B"
-02	4.40 [0.173]	6.00 [0.236]
-03	6.20 [0.244]	7.80 [0.307]
-04	8.00 [0.315]	9.60 [0.378]
-05	9.80 [0.386]	11.40 [0.449]
-06	11.60 [0.457]	13.20 [0.520]

LEAD STYLE	"C"	"D"
-05.0	4.775 [0.1880]	4.804 [0.1891]
-07.0	6.775 [0.2667]	6.804 [0.2679]

NVAF LEAD STYLE	NVAM LEAD STYLE			
	-02.0	-05.0	-11.0	-14.0
-05.0	7.00 [0.276]	10.00 [0.394]	16.00 [0.630]	19.00 [0.748]
-07.0	9.00 [0.354]	12.00 [0.472]	18.00 [0.709]	21.00 [0.827]

NOTES:

1. MINIMUM PUSH OUT FORCE 1.6N [0.36 LBS.]
2. NOTE DELETED.
3. NOTE DELETED.
4. ATTACH LABEL-4X2 TO EACH REEL.
5. K-DOT PROVIDED AS STANDARD.
6. ALIGNMENT PINS AND STANDOFFS ARE STANDARD ON ALL STYLES.
7. NOTE DELETED.
8. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.

FIG 1  
NVAF-DP-04-2-05.0-X-X-K-XR SHOWN

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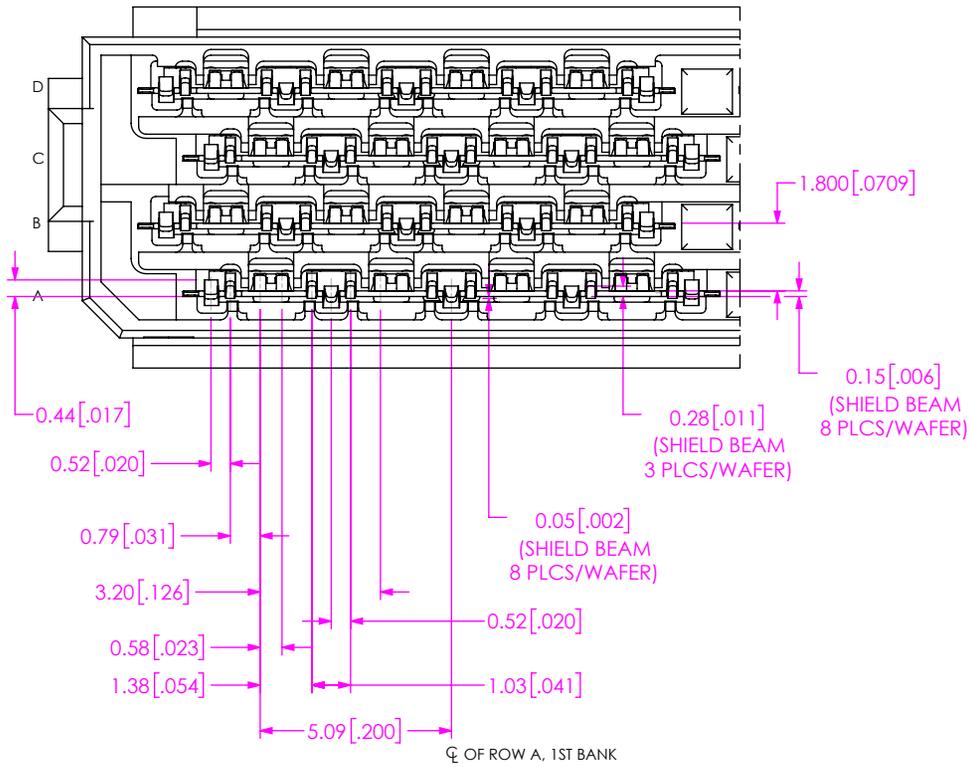
MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, COLOR: BLACK  
CONTACT: COPPER ALLOY  
SHIELD: COPPER ALLOY

SHEET SCALE: 3:1

DESCRIPTION: NVAF 0.8mm ARRAY ASSY

DWG. NO. NVAF-XX-XX-X-XX.X-X-X-XX-K-XR

BY: B BLESSING 5/11/2017 SHEET 1 OF 4



DETAIL 'A'  
SCALE 5 : 1

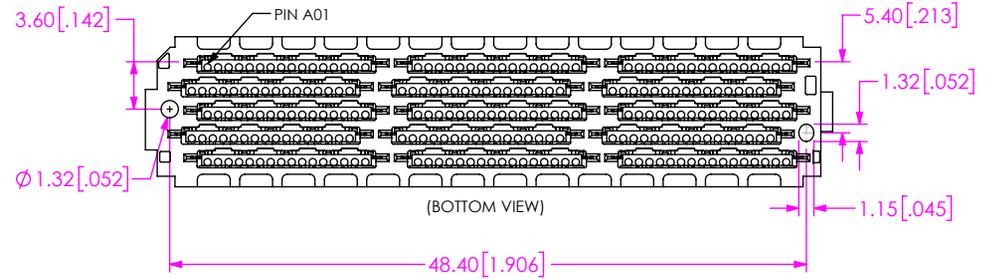
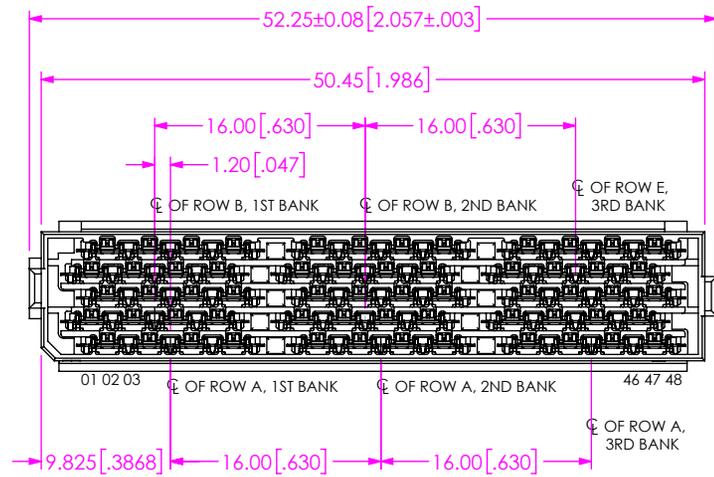


FIG 3  
NVAF-DP-05-3-05.0-X-X-K-XR SHOWN  
(SAME AS FIGS 1 & 2, EXCEPT AS SHOWN)

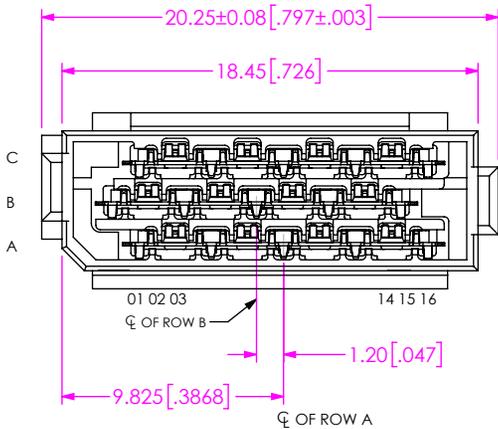
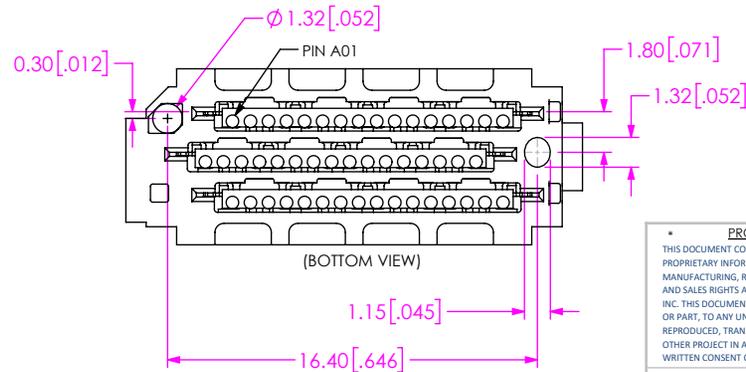


FIG 2  
NVAF-DP-03-1-05.0-X-X-K-XR SHOWN  
(SAME AS FIG 1, EXCEPT AS SHOWN)



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DO NOT SCALE DRAWING  
SHEET SCALE: 2:1

DESCRIPTION: NVAF 0.8mm ARRAY ASSY  
DWG. NO. NVAF-XX-XX-X-XX.X-X-X-XX-K-XR  
BY: B BLESSING 5/11/2017 SHEET 2 OF 4

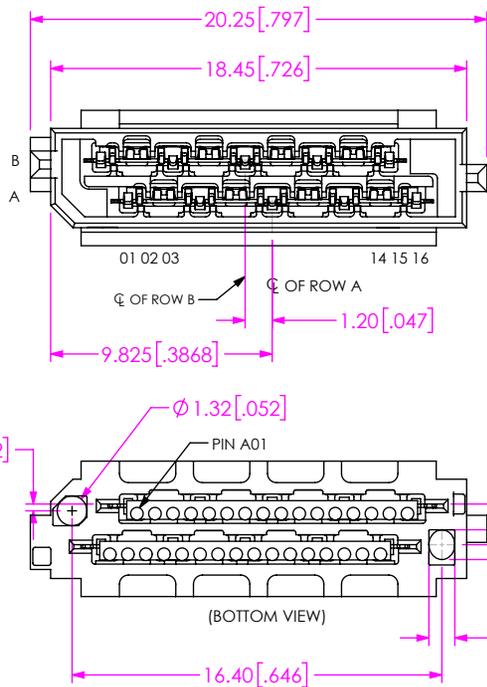


FIG 4  
NVAF-DP-02-1-05.0-X-X-K-XR SHOWN  
(SAME AS FIG 1, EXCEPT AS SHOWN)

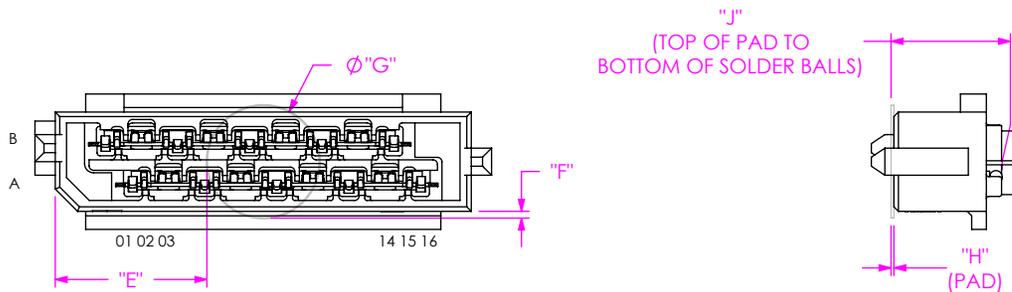


FIG 6  
POLYIMIDE PAD  
NVAF-DP-02-1-05.0-X-X-XX-K-XR SHOWN

LEAD STYLE	"J"	"J" (-06 ROW)
-05.0	4.93 [0.194]	5.06 [0.199]
-07.0	6.93 [0.273]	7.06 [0.278]

ROWS	"E"						"F"	Ø"G"	"H"
	1 BANK		2 BANK		3 BANK				
	NO -WT	-WT	NO -WT	-WT	NO -WT	-WT			
-02	6.73 [0.265]	8.43 [0.332]	14.73 [0.580]	16.43 [0.647]	22.73 [0.895]	24.43 [0.962]	0.30 [0.012]	5.00 [0.197]	0.13 [0.005]
-03	5.73 [0.225]	7.43 [0.292]	13.73 [0.540]	15.43 [0.607]	21.73 [0.855]	23.43 [0.922]	0.40 [0.016]	7.00 [0.276]	0.13 [0.005]
-04	4.73 [0.186]	6.43 [0.253]	12.73 [0.501]	14.43 [0.568]	20.73 [0.816]	22.43 [0.883]	0.50 [0.020]	9.00 [0.354]	0.13 [0.005]
-05	3.39 [0.133]	5.09 [0.200]	11.39 [0.448]	13.09 [0.515]	19.39 [0.763]	21.09 [0.830]	0.94 [0.037]	11.68 [0.460]	0.13 [0.005]
-06	2.23 [0.088]	3.93 [0.155]	10.23 [0.403]	11.93 [0.469]	18.23 [0.718]	19.93 [0.784]	1.20 [0.047]	14.00 [0.551]	0.25 [0.010]

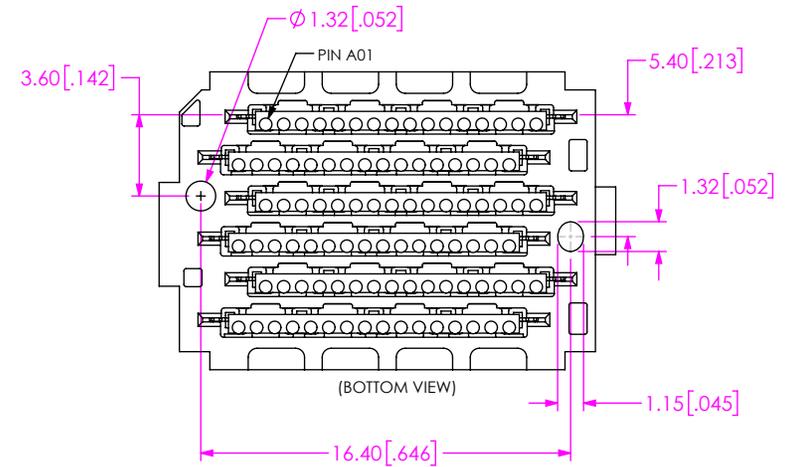
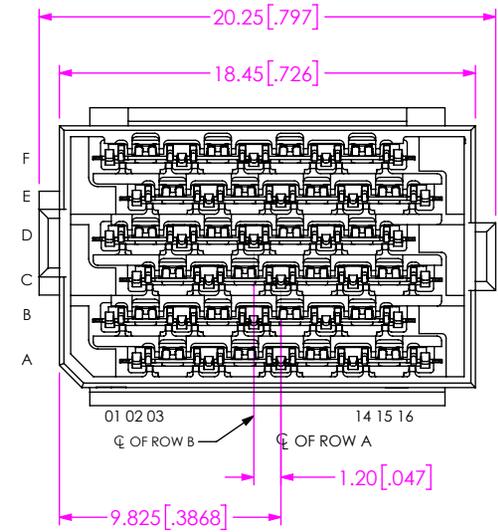


FIG 5  
NVAF-DP-06-1-05.0-X-X-K-XR SHOWN  
(SAME AS FIG 1, EXCEPT AS SHOWN)

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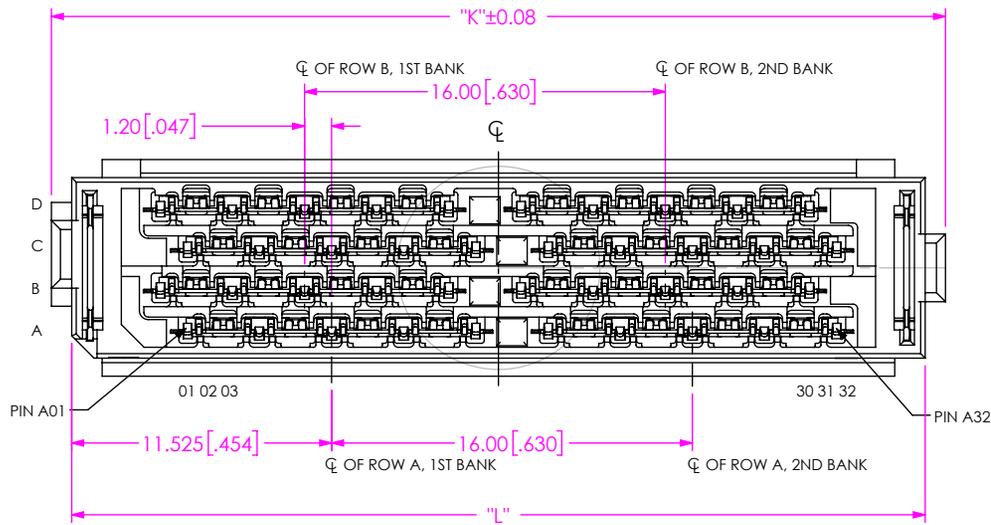
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SHEET SCALE: 3:1

DESCRIPTION: NVAF 0.8mm ARRAY ASSY

DWG. NO. NVAF-XX-XX-X-XX.X-X-X-XX-K-XR  
BY: B BLESSING 5/11/2017 SHEET 3 OF 4

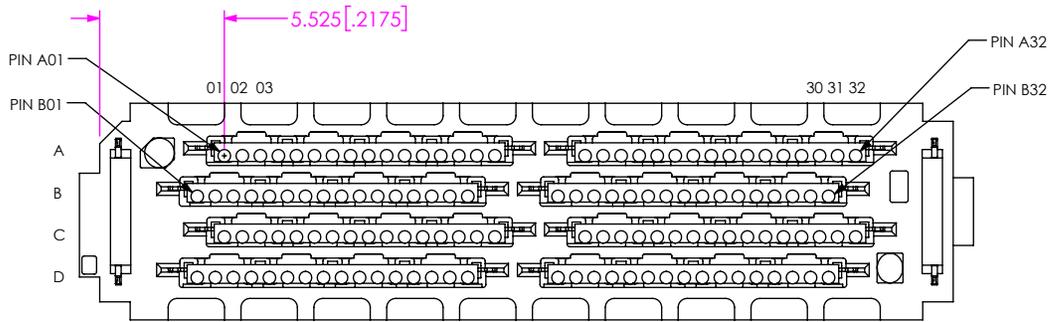
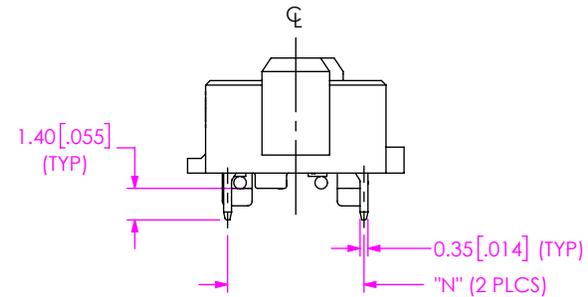
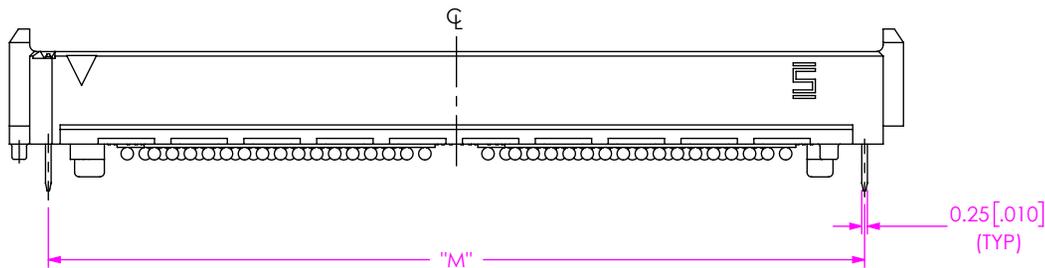


**TABLE 6**

BANK OPTIONS	"K"	"L"	"M"
-1	23.65 [0.931]	21.85 [0.860]	20.20 [0.795]
-2	39.65 [1.561]	37.85 [1.490]	36.20 [1.425]
-3	55.65 [2.191]	53.85 [2.120]	52.20 [2.055]

**TABLE 7**

ROW OPTIONS	"N"
-02	2.85 [0.112]
-03	2.85 [0.112]
-04	6.05 [0.238]
-05	6.05 [0.238]
-06	6.05 [0.238]



**FIG 7**  
NVAF-DP-04-2-05.0-X-X-WT-K-XR SHOWN  
(SAME AS FIG 1, EXCEPT AS SHOWN)

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