

REVISION A

3/3/2026 ECN-26-48939-1

DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN

NVBM-XX-XX-RA-XXX-X-X-X

NOTES:

1. TRAYS ARE STANDARD PACKAGING.
2. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
3. NOTE DELETED.
4. MIXING THE DP & SE WAFERS WILL BE AVAILABLE AS ASP's.
5. K-DOT PROVIDED AS STANDARD.
6. PARTS ARE SOLDERED WITH OPTIMIZED SOLDER PASTE VOLUME. FOR MORE INFORMATION, CONTACT SAMTEC'S INTERCONNECT PROCESSING GROUP (IPG@SAMTEC.COM).

DO NOT
SCALE FROM
THIS PRINT

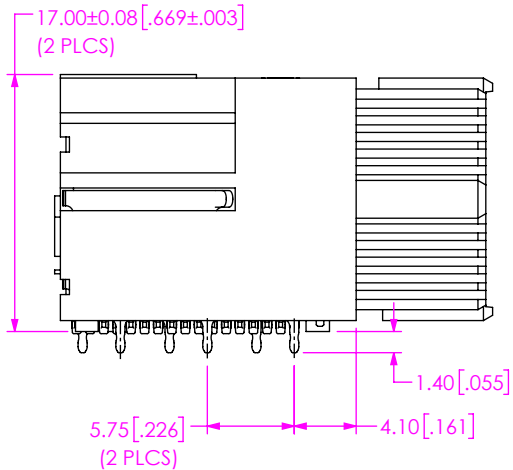
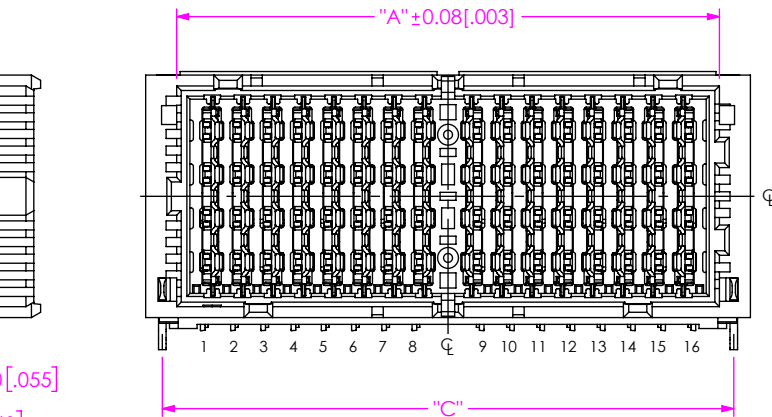
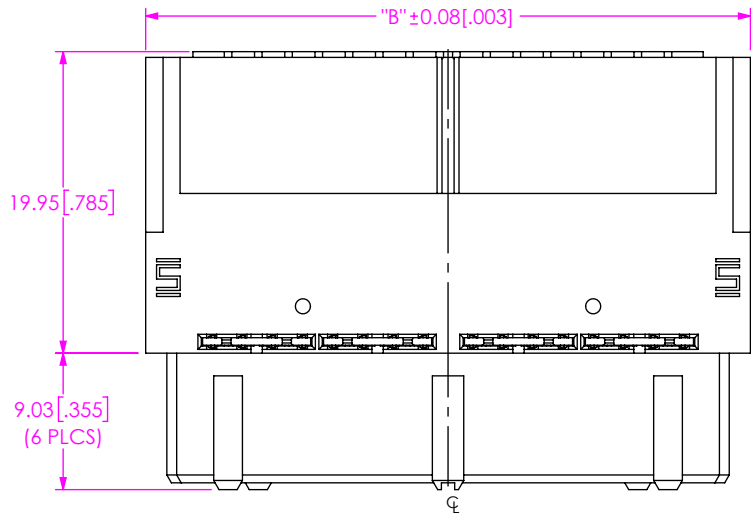


TABLE 1

No. OF ROWS	"A"	"B"	"C"
-04	11.90 [0.469]	16.00 [0.630]	13.80 [0.543]
-08	19.90 [0.783]	24.00 [0.945]	21.80 [0.858]
-12	27.90 [1.098]	32.00 [1.260]	29.80 [1.173]
-16	35.90 [1.413]	40.00 [1.575]	37.80 [1.488]
-18	39.90 [1.571]	44.00 [1.732]	41.80 [1.646]
-24	51.90 [2.043]	56.00 [2.205]	53.80 [2.118]
-32	67.90 [2.673]	72.00 [2.835]	69.80 [2.748]

FIG 1
(NVBM-XX-16-RA-XXX-1-N SHOWN)
(FOR -1 & -2 OPTION ONLY)

STYLE

- DP: 4 DIFFERENTIAL PAIRS/ROWS
- *-SE: SINGLE ENDED
- *-DS: DP & SE (SEE NOTE 4)

ROWS

- 04, *-08, -12, -16, *-18, *-24, *-32

RIGHT ANGLE

PLATING

- S: 30μ" GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- *-STL: 30μ" GOLD IN CONTACT AREA, MATTE TIN LEAD ON TAIL

- (* = NOT TOOLED)
- (** = NOT RELEASED)
- (□ = TOOLED FOR 4 ROWS (NOT RELEASED)&12 ROWS ONLY (RELEASED), NOT TOOLED FOR ALL OTHER OPTIONS)
- (■ = TOOLED FOR 4 ROWS ONLY (NOT RELEASED), NOT TOOLED FOR ALL OTHER OPTIONS)

KEYING

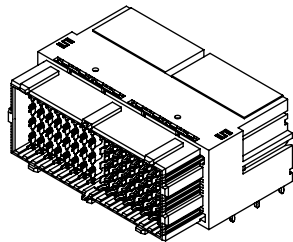
- (ONLY AVAILABLE WITH GUIDANCE)
- N : NONE (NO KEY)
- A THRU -H

GUIDANCE

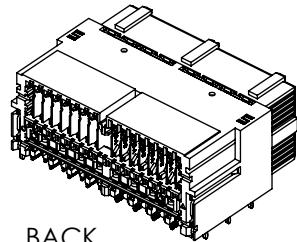
- BLANK: NO GUIDE
- L: LEFT GUIDE
- R: RIGHT GUIDE
- B: BOTH

TERMINATION

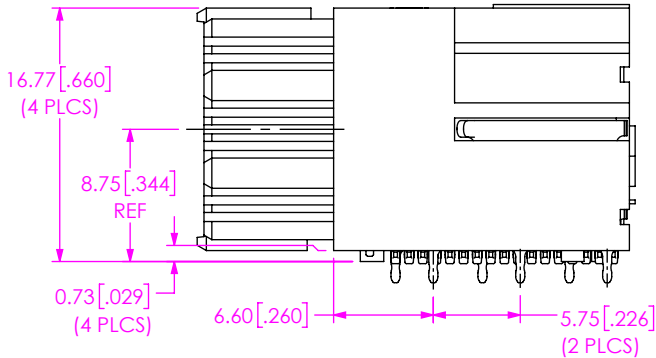
- **0: COLUMN (SEE NOTE 6)
- *-1: SOLDER CHARGE (63% TIN / 37% LEAD)
- 2: SOLDER CHARGE (95.5% TIN / 3.8% SILVER / 0.7% COPPER, LEAD FREE)



FRONT



BACK



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MATERIAL: INSULATORS: LCP, UL94 V0, COLOR: BLACK
CONTACTS/SHIELDS: CU ALLOY

DO NOT SCALE DRAWING

samtec

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

DESCRIPTION: NovaRay μ RUGGED BP RIGHT ANGLE ASM
DWG. NO. NVBM-XX-XX-RA-XXX-X-X-X

BY: KNOWLDEN 01/16/2023 SHEET 1 OF 3

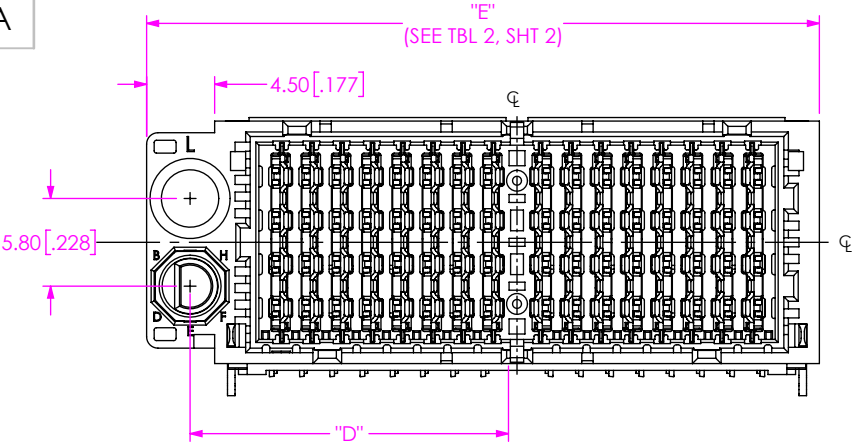


FIG 2
(SAME AS FIG 1, EXCEPT AS SHOWN)
(NVBM-XX-16-RA-XXX-X-L-C-XX SHOWN)

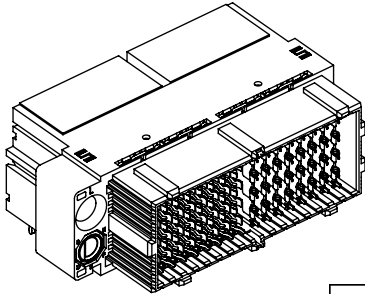


TABLE 2			
No. OF ROWS	"D"	"E"	
		-L,-R	-B
-04	9.63 [0.379]	20.50 [0.807]	25.00 [0.984]
-08	13.63 [0.536]	28.50 [1.122]	33.00 [1.299]
-12	17.63 [0.694]	36.50 [1.437]	41.00 [1.614]
-16	21.63 [0.851]	44.50 [1.752]	49.00 [1.929]
-18	23.63 [0.930]	48.50 [1.909]	53.00 [2.087]
-24	29.63 [1.166]	60.50 [2.382]	65.00 [2.559]
-32	37.63 [1.481]	76.50 [3.012]	81.00 [3.189]

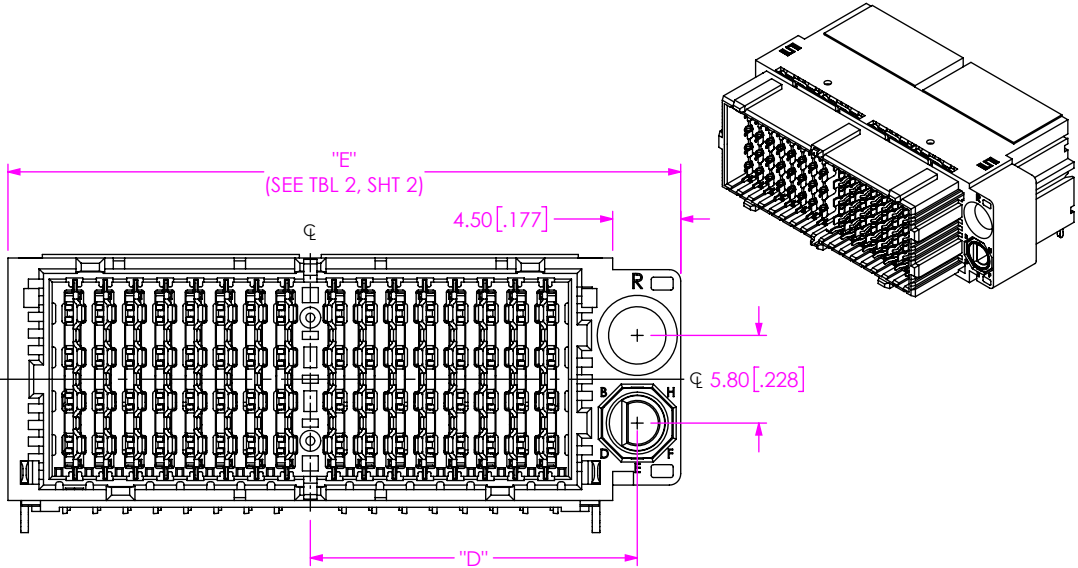


FIG 3
(SAME AS FIG 1, EXCEPT AS SHOWN)
(NVBM-XX-16-RA-XXX-X-R-C-XX SHOWN)

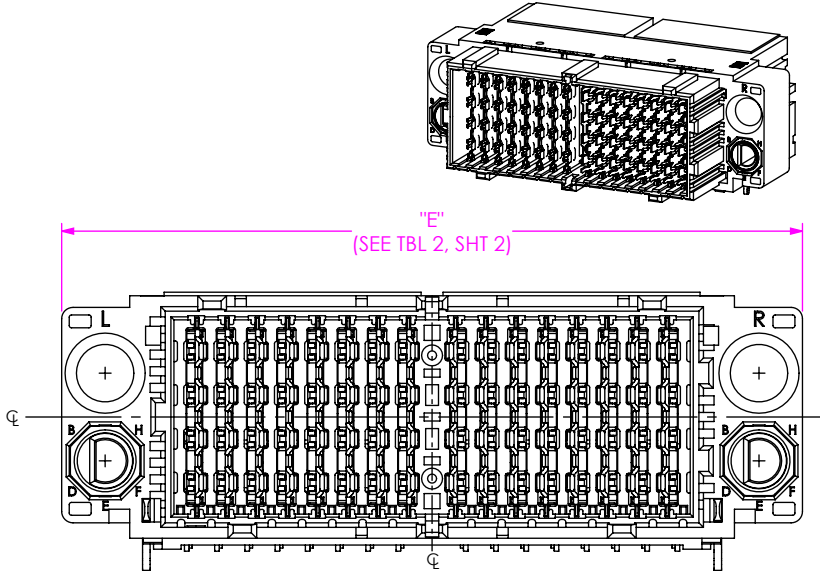


FIG 4
(SAME AS FIGS 2 & 3, EXCEPT AS SHOWN)
(NVBM-XX-16-RA-XXX-X-B-C-XX SHOWN)

TABLE 3								
GUIDANCE	KEYING							
-BLANK	-NONE							
-L / -R / -B	-A	-B	-C	-D	-E	-F	-G	-H

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

DESCRIPTION:
NovaRay μ RUGGED BP RIGHT ANGLE ASM
DWG. NO.
NVBM-XX-XX-RA-XXX-X-X-X
BY: KNOWLDEN 01/16/2023 SHEET 2 OF 3

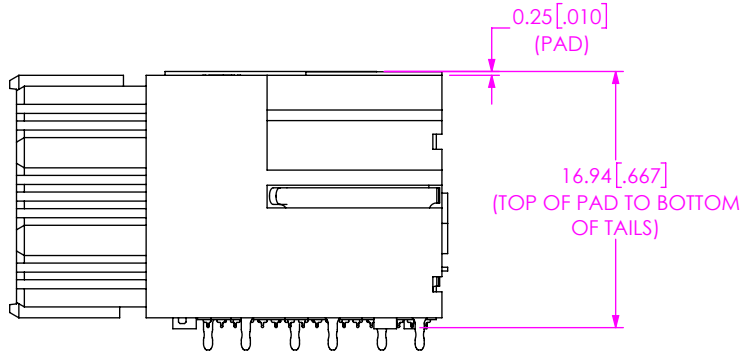
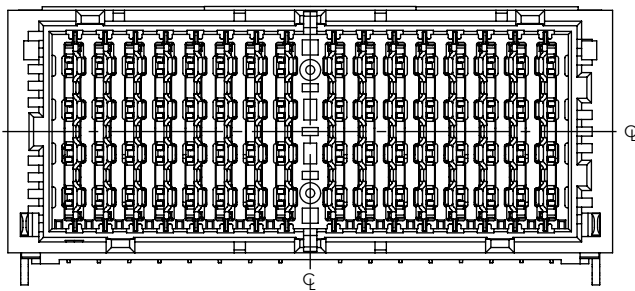


FIG 5
K-DOT
(NVBM-XX-16-RA-XXX-0-N SHOWN)
(SAME AS FIG 6 & 7, EXCEPT AS SHOWN)

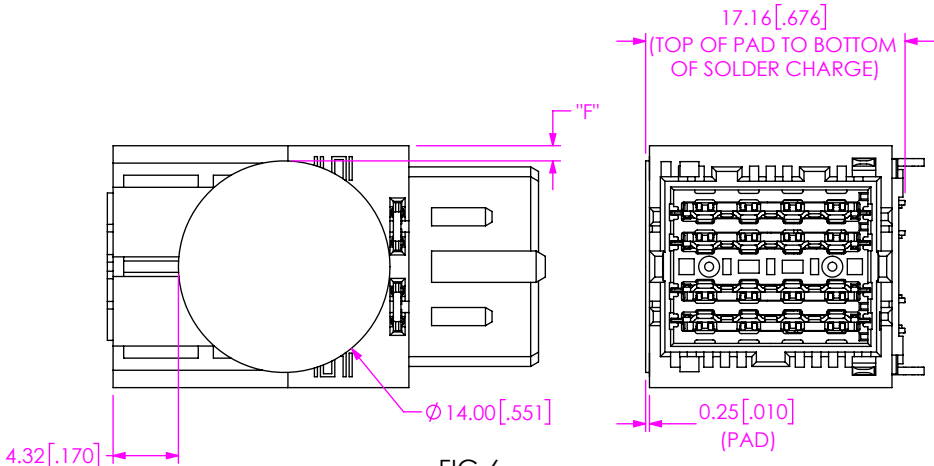


FIG 6
K-DOT
(FOR -04 & -08 ROW)
(NVBM-XX-04-RA-XXX-X-X-X-XX SHOWN)

TABLE 4		
No. OF ROWS	"F"	
-04	1.00	[0.039]
-08	5.00	[0.197]
-12	7.76	[0.306]
-16	11.76	[0.463]
-18	13.76	[0.542]
-24	19.76	[0.778]
-32	27.76	[1.093]

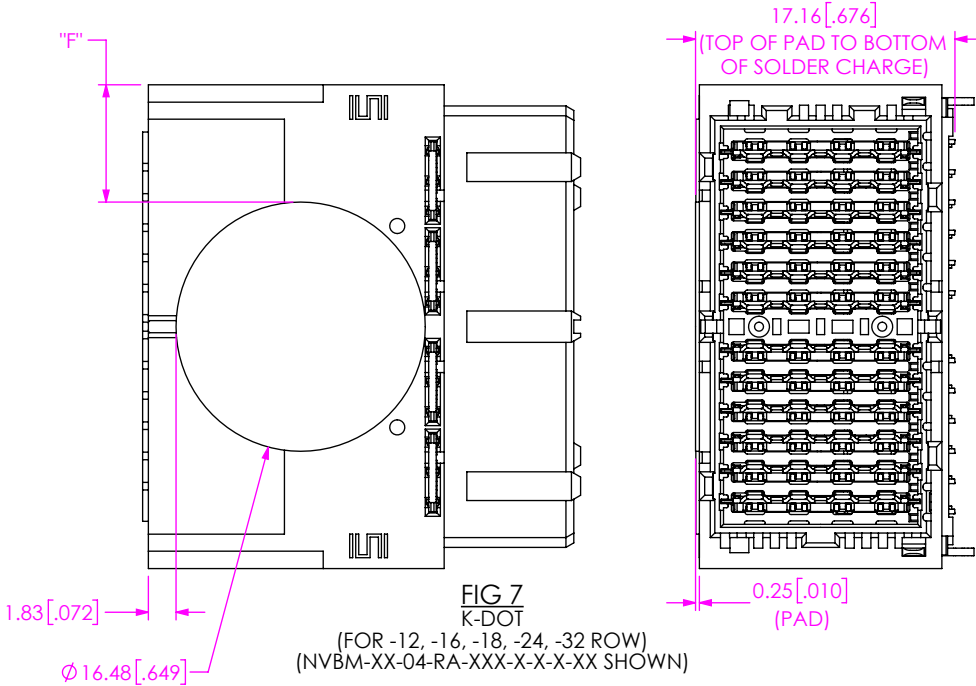


FIG 7
K-DOT
(FOR -12, -16, -18, -24, -32 ROW)
(NVBM-XX-04-RA-XXX-X-X-X-XX SHOWN)

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NovaRay μ RUGGED BP RIGHT ANGLE ASM
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NVBM-XX-XX-RA-XXX-X-X-X
BY: KNOWLDEN 01/16/2023 SHEET 3 OF 3