REVISION L RECOMMENDED PCB LAYOUT FOR EBTM-4-XX-2.0-X-VT-X-X-X 11/18/2022 ECN-445350 1.05 REF 0.85 REF 2.00 .079 (TYP) CONNECTOR OUTLINE (SEE NOTE 2) 0 0 0 0 \bigcirc 0 0 \bigcirc 0 \bigcirc \bigcirc \bigcirc 0 0 0 0 0 0 Μ M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 \bigcirc 0 0 0 0 \bigoplus 15.60 .614 0 0 0 0 0 0 0 0 0 0 TOP OF 0 0 0 0 0 0 0 0 0 0 DAUGHTER CARD \bigoplus 0 0 0 \bigcirc 0 0 0 0 12.40|||.094| 0 \bigcirc 22.50 [.886] REF Н 15.60 .614 0 0 (SEE NOTE 2) .047 0 0 G 0 1.25[.049]REF G 0 0 0 0 0 POS A1 TO 0 0 0 0 0 (0) TOP OF DAUGHTERCARD 0 0 0 0 0 Ε 0 \bigcirc Ε \bigcirc 0 D 1.20 .047 0 0 0 0 0 0 (TYP) 1.20 .047 0 0 0 0 0 0 0 0 0 C DETAIL 'A' 0 0 0 0 0 0 0 0 0 \odot \bigcirc 0 (O) Α Α 3.35 .132 REF (TYP) 6 10 Ø 0.50±0.05 [.020±.002] PTH→ 0.10 0.75 [.030] X 45° REF FIG 1 TABLE 1 (EBTM-4-10-2.0-X-VT-X FOOTPRINT SHOWN) (SEE NOTE 2) ϕ 0.600[.0236] (DRILLED HOLE)-COLUMN "A" Ø0.840[.0331] (PAD) ─► -06 10.00 [.394] Ø0.36±0.05[.014±.002] PTH 0.10 -08 14.00 [.551] Ø0.450[.0177] (DRILLED HOLE) -10 18.00 [.709] Ø0.700[.0276] (PAD) **TABLE 2** 0.020-0.069 [.0008-.0027] Cu TIN (IMMERSION) Sn 0.0010-0.0020 [.00004-.00008] **COPPER** TIN -(SEE TABLE 2 NOTES: SEE TABLE 2 & NOTE 3) 1. ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE. SECTION "C"-"C" SCALE 15:1 2. CONNECTOR ENVELOPE DIMENSION. OTHER COMPONENTS PLACED ON PCB SHALL AVOID THIS ZONE. (SEE TABLE 2 & NOTE 3) 3. COPPER PLATING THICKNESS MAY NOT VARY BY MORE THAN 0.02 MM WITHIN ANY VIA. SEE TABLE 2 (GROUNDS) 4. CONTACT SAMTEC FOR CONNECTOR PRESS FIT INSTRUCTIONS AND REQUIRED FIXTURES. SECTION "B"-"B" 5. LEFT AND RIGHT GUIDANCE CONNECTORS INCLUDE A METAL HOLD-DOWN PROPRIETARY NOTE SCALE 15:1 INSERT AND UTILIZE M2 SCREWS TO SECURE THE CONNECTOR TO THE PCB. THIS DOCUMENT CONTAINS CONFIDENTIAL AND DO NOT PUT TOP LEVEL TRACES OR VIAS IN THESE KEEP OUT ZONES. IF SCREWS PROPRIETARY INFORMATION AND ALL DESIGN, (SIGNALS) MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, HAVE AN OUTSIDE DIAMETER LARGER THAN 4.0MM. THEN ADDITIONAL CLEARANCE WILL BE REQUIRED FOR THE BOTTOM OF THE PCB. INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR 520 PARK EAST BLVD, NEW ALBANY, IN 47150 6. ALL GROUNDS WITHIN A COLUMN ARE COMMON. REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY PHONE: 812-944-6733 FAX: 812-948-5047 OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS

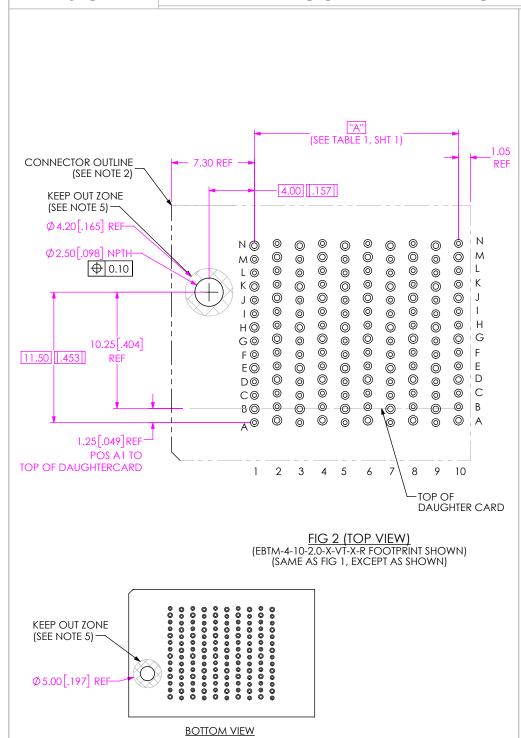
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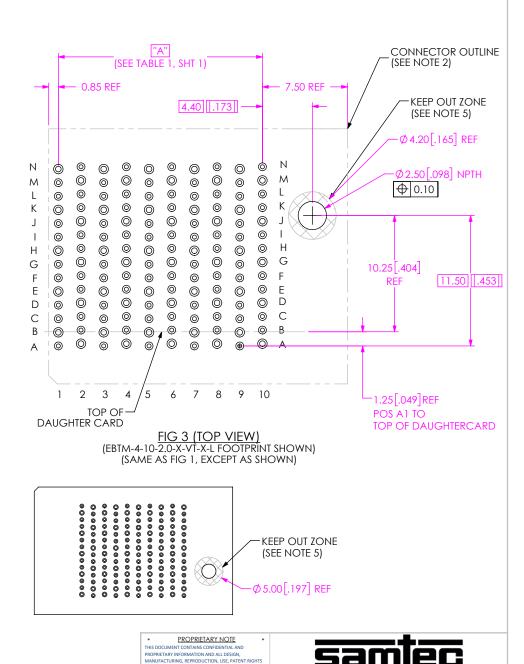
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REVISION L

RECOMMENDED PCB LAYOUT FOR EBTM-4-XX-2.0-X-VT-X-X-X

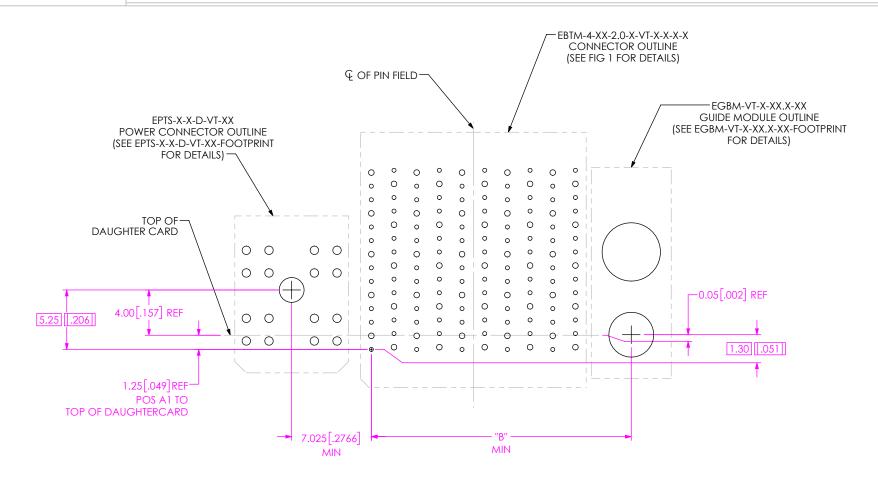


FIG 4

SIGNAL, POWER AND EXTERNAL GUIDANCE COMBO
(EPTS-2-P-D-VT-XX-FOOTPRINT, EBTM-4-XX-2.0-X-VT-X-X-FOOTPRINT, AND EGBM-VT-X-XX.X-20-FOOTPRINT SHOWN)

TABLE 3			
COLUMNS	"B"		
-06	14.925 [0.5876]		
-08	18.925 [0.7451]		
-10	22.925 [0.9026]		

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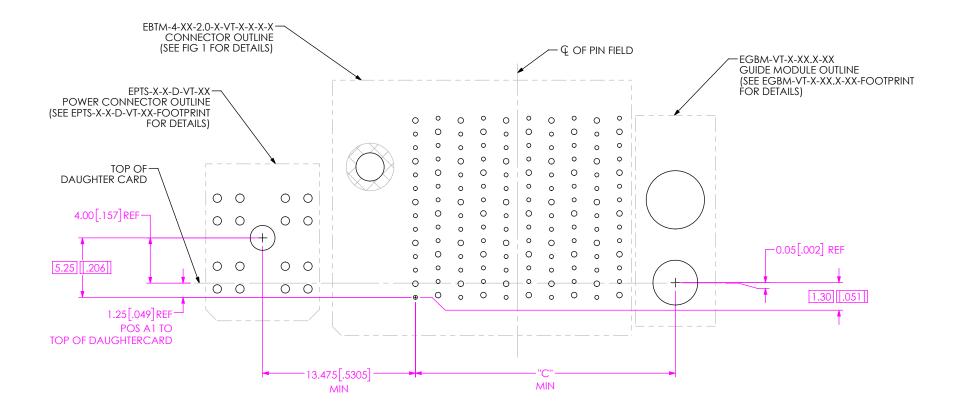


FIG 5 SIGNAL, POWER, INTERNAL (-R) AND EXTERNAL GUIDANCE COMBO (EPTS-2-P-D-VT-XX-FOOTPRINT, EBTM-4-XX-2.0-X-VT-X-R-FOOTPRINT, AND EGBM-VT-X-XX.X-20-FOOTPRINT SHOWN)

TABLE 4				
COLUMNS	"	C"		
-06		[0.5876]		
-08	18.925	[0.7451]		
-10	22.925	[0.9026]		

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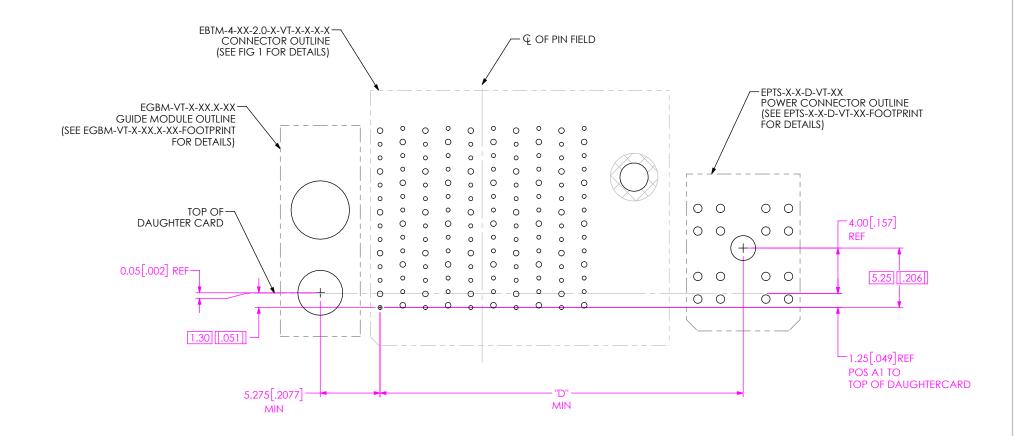
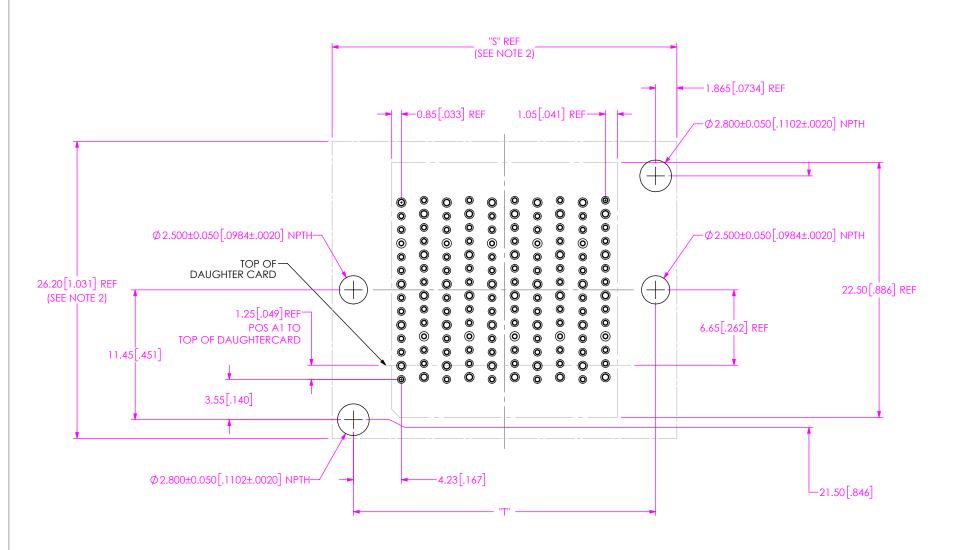


FIG 6
SIGNAL, POWER, INTERNAL (-L) AND EXTERNAL GUIDANCE COMBO (EPTS-2-P-D-VT-XX-FOOTPRINT, EBTM-4-XX-2,0-X-VT-X-L-FOOTPRINT, AND EGBM-VT-X-XX,X-20-FOOTPRINT SHOWN)

TABLE 5			
COLUMNS	"D"		
-06	24.025 [0.9459]		
-08	28.025 [1.1033]		
-10	32.025 [1.2608]		

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 $\underline{\text{FIG 7}} \\ \text{(EBTM-4-10-2.0-X-VT-X WITH LATCHING BRACKET}$ FOR EBCF CABLE FOOTPRINT SHOWN) (SAME AS FIG 1 EXCEPT AS SHOWN)

TABLE 6			
NO OF COLUMNS	"S"	"T"	
*-04	18.40 [.724]	14.66 [.577]	
-06	22.40 [.882]	18.66 [.735]	
-08	26.40 [1.039]	22.66 [.892]	
* = NOT TOOLED			

 $F: \DWG\MisC\Mktg\Footprnt\EBTM-4-XX-2.0-X-VT-X-X-FOOTPRINT.slddrw$



