



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

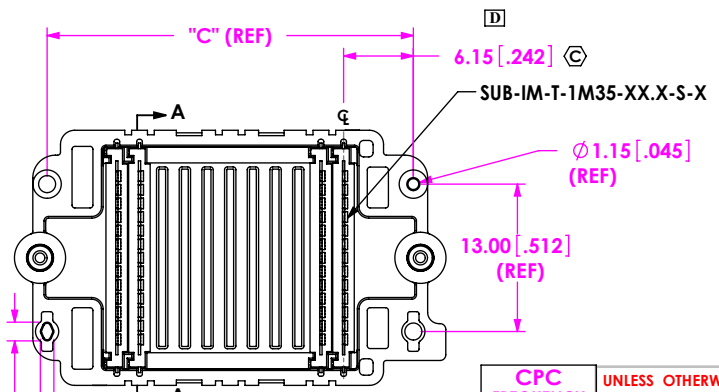
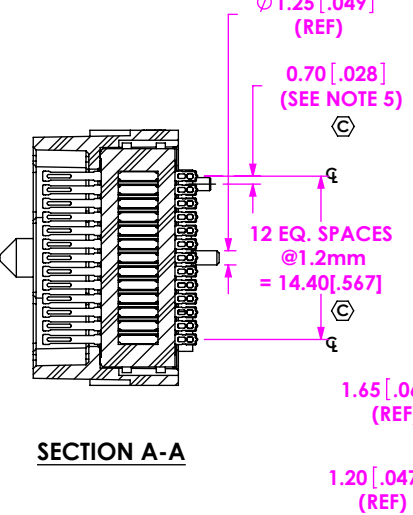
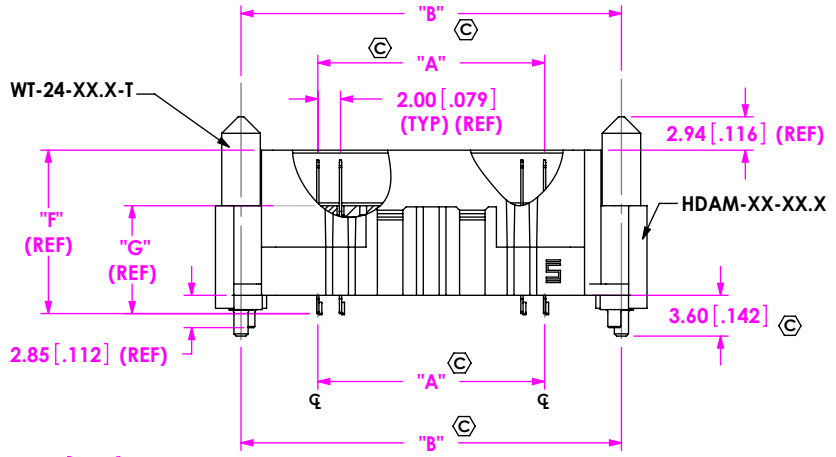
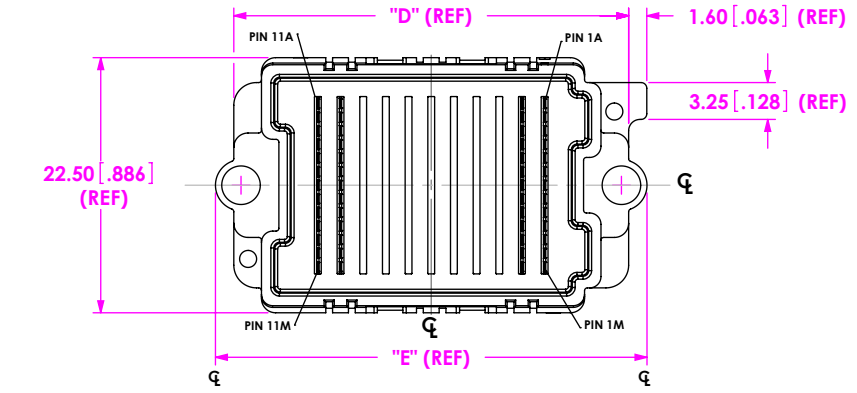
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DO NOT SCALE FROM THIS PRINT

DESIGNED & DIMENSIONED IN MILLIMETERS (INCHES FOR REFERENCE ONLY)

HDAM-XX-XX.X-X-13-X-X



**No OF POSITIONS**  
(13 ROW PER POSITION)  
-11  
-15  
-23

**LEAD STYLE**  
-12.0: 12MM  
-17.0: 17MM

**PLATING SPECIFICATION**  
-S: SELECTIVE, .000030 INCHES GOLD IN MATING AREA, MATTE TIN ON TAIL AND GUIDE PINS

**OPTION**  
-P: PICK & PLACE PAD (USE MPP-26-01-N)

**SOLDER CHARGE MATERIAL**  
-1: 63%TIN / 37% LEAD  
-2: 95.5% TIN / 3.8% SILVER 0.7% COPPER (LEAD FREE)

**No OF ROWS**  
-13

**TABLE 1**

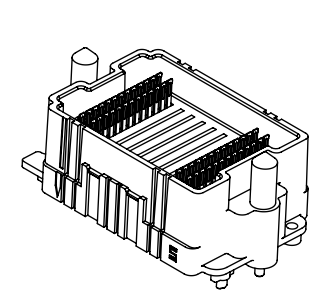
STYLE	"BODY CALLOUT"	"TERMINAL WAFER"	"GUIDE PIN"
-12.0	HDAM-XX-12.0	SUB-IM-T-1M35-12.0-S-X	WT-24-12.0-T
-17.0	HDAM-XX-17.0	SUB-IM-T-1M35-17.0-S-X	WT-24-17.0-T

**TABLE 2**  
**STACK HEIGHT**

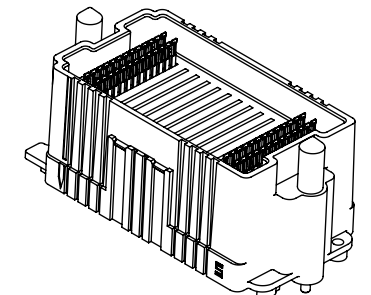
HDAM LEAD STYLE	HDAF LEAD STYLE	
	-08.0	-18.0
-12.0	20.0MM	30.0MM
-17.0	25.0MM	35.0MM

**TABLE 3**

No. OF POS.	LEAD STYLE	"A"	"B"	"C"	"D"	"E"	"F"	"G"
11	12	20.0 [1.787]	33.55 [1.321]	32.30 [1.272]	34.82 [1.371]	38.06 [1.498]	14.41 [1.567]	9.51 [1.374]
15	12	28.0 [1.102]	41.55 [1.636]	40.30 [1.587]	42.82 [1.686]	46.06 [1.813]	14.41 [1.567]	9.51 [1.374]
23	12	44.0 [1.732]	57.55 [2.266]	56.30 [2.217]	58.82 [2.316]	62.06 [2.493]	14.41 [1.567]	9.51 [1.374]
11	17	20.0 [1.787]	33.55 [1.321]	32.30 [1.272]	34.82 [1.371]	38.06 [1.498]	19.41 [1.764]	14.51 [1.571]
15	17	28.0 [1.102]	41.55 [1.636]	40.30 [1.587]	42.82 [1.686]	46.06 [1.813]	19.41 [1.764]	14.51 [1.571]
23	17	44.0 [1.732]	57.55 [2.266]	56.30 [2.217]	58.82 [2.316]	62.06 [2.443]	19.41 [1.764]	14.51 [1.571]



(-12.0 SHOWN)



(-17.0 SHOWN)

- NOTES:
1.  $\text{C}$  REPRESENTS A CRITICAL DIMENSION.
  2. MINIMUM PUSHOUT FORCE: 2.22N[.5 LB]. FOR WAFERS
  3. CONNECTORS TO BE PACKAGED IN TRAYS.
  4. USE THESE SURFACES TO MEASURE "G" DIMENSION.
  5. DIMENSION FROM CL OF END TAIL TO CL OF -A PIN.

**FIG 1**  
-11: 1T POSITION  
(HDAM-11-12.0-X-13-X-X SHOWN)  
(SOME WAFERS NOT SHOWN FOR CLARITY)

**CPC FREQUENCY THIS SHEET**

A	C1, C2, C3, C4, C5, C6, C7, C8
B	
C	
D	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS (INCHES).

TOLERANCES ARE:  
DECIMALS: ANGLES  
X:  $\pm 0.3$  [0.1]  
.XX:  $\pm 0.13$  [0.05]  
.XXX:  $\pm 0.051$  [0.020]

**PROPRIETARY NOTE**  
THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1.5:1

INSULATOR: LCP. COLOR: BLACK  
CONTACT: COPPER ALLOY  
WAFFER MATERIAL: LCP. COLOR: BLACK  
GUIDE PIN MATERIAL: BRASS  
PICK AND PLACE PAD: COPPER ALLOY

**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:  
**2.0MM PITCH HD ARRAY TERMINAL ASSEMBLY**

DWG. NO.  
**HDAM-XX-XX.X-X-13-X-X**

BY: D KNOWLDEN 7/15/2005 SHEET 1 OF 2



