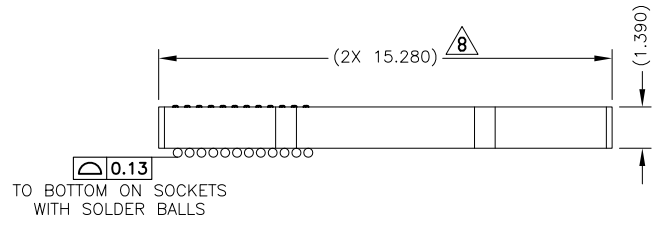
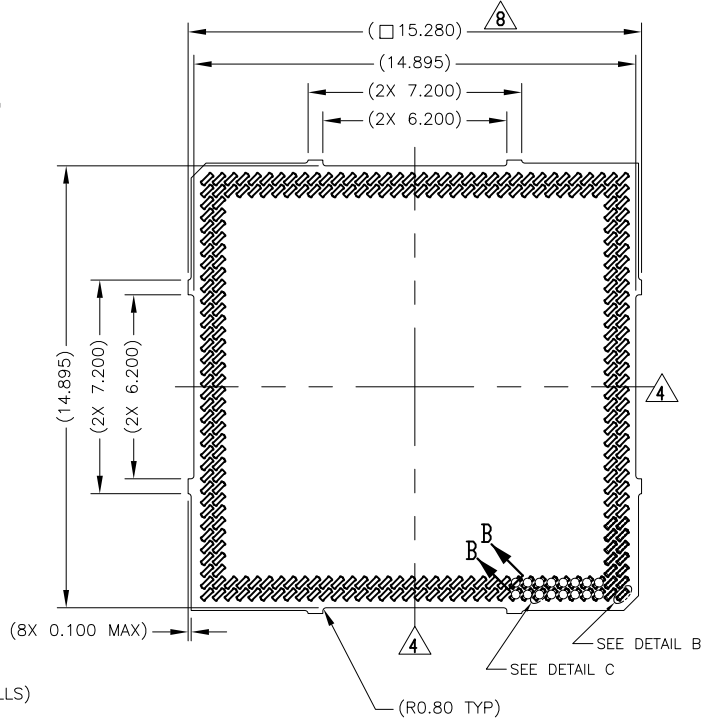
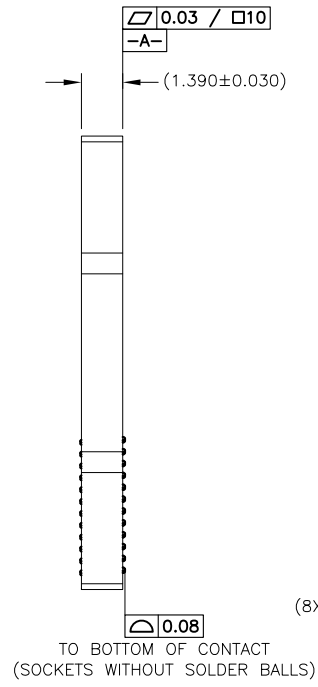
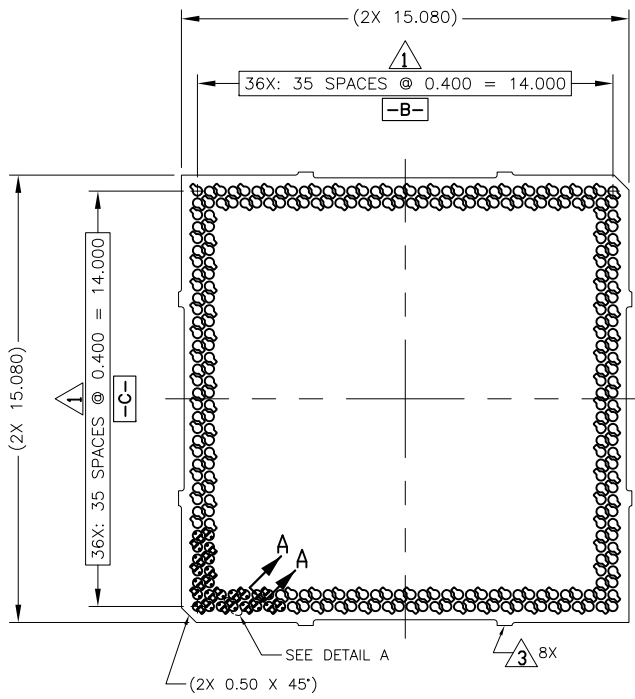


REV	ECO	BY	DESCRIPTION	APV	DATE
A	31500	RS	Initial Design	NSJ	04/23/14



Parts List	
Part Number	Description
109000-0001	SOCKET, 272G40 15.00-0.40 (WITH EUTECTIC SOLDER BALLS)
109000-0002	SOCKET, 272G40 15.00-0.40 (WITH SAC305 SOLDER BALLS)
109000-0003	SOCKET, 272G40 15.00-0.40 (WITHOUT SOLDER BALLS)
104553-0336	STENCIL, FLEX, 272G40 15.00-0.40 (SOLD SEPARATELY)
105900-0004	EXTRACTION TOOL, 4X53 (SOLD SEPARATELY)
108639-0005	FRAME, ALIGNMENT, G40, 15.00X15.00 (SOLD SEPARATELY)
103864-0005	PRESS, DEVICE INSERT, GYP 15.00X15.00 (SOLD SEPARATELY)

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN MILLIMETERS - DIM'S APPLY AFTER PLATING

TOLERANCES UNLESS OTHERWISE NOTED:

ANGLES ±1'	DECIMALS X.XX ±0.25
	X.XXX ±0.10
	X.XXXX ±0.050

LEGEND:

- (X) NOTE CALLOUT
- (R) REVISION CHANGE
- (X) ITEM NUMBER

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CAD GENERATED DRAWING DO NOT MANUALLY UPDATE

DRAWING APPROVALS

NAME	DATE
R. Sewharack	04/23/14
N. St Jacques	04/23/14

HSIO TECHNOLOGIES, LLC.
13300 67TH AVENUE NORTH
MAPLE GROVE, MN 55311. 763-447-6260

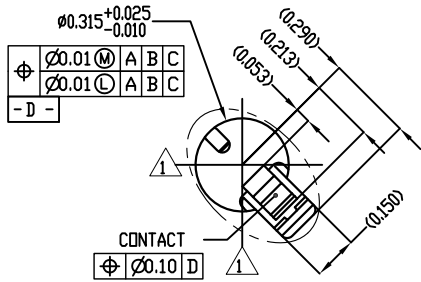
TITLE: SCKT, 272G40 15.00-0.40

SCALE: C AUTOCAD DRAWING NO: 109000-XXXX REV: A

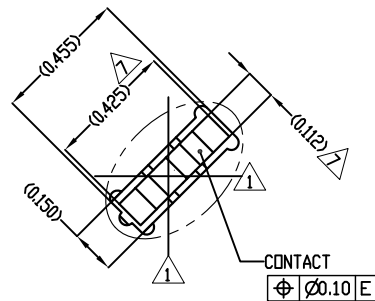
THIRD ANGLE PROJECTION

SEE B.O.M

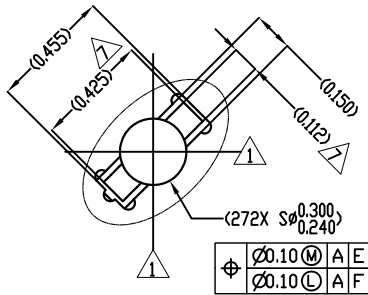
SHEET 1 of 3



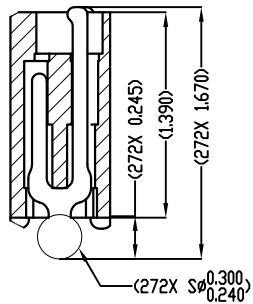
DETAIL A (272X)
SCALE 10:1



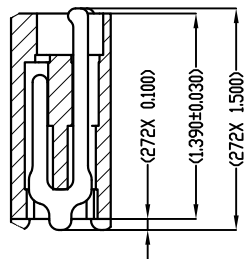
DETAIL B (272X)
SCALE 10:1



DETAIL C (272X)
SCALE 8:1



SECTION B-B
SCALE 5:1
VIEW WITH SOLDER BALLS
(EUTECTIC/SAC305)



SECTION A-A
SCALE 5:1
VIEW WITHOUT SOLDER BALLS

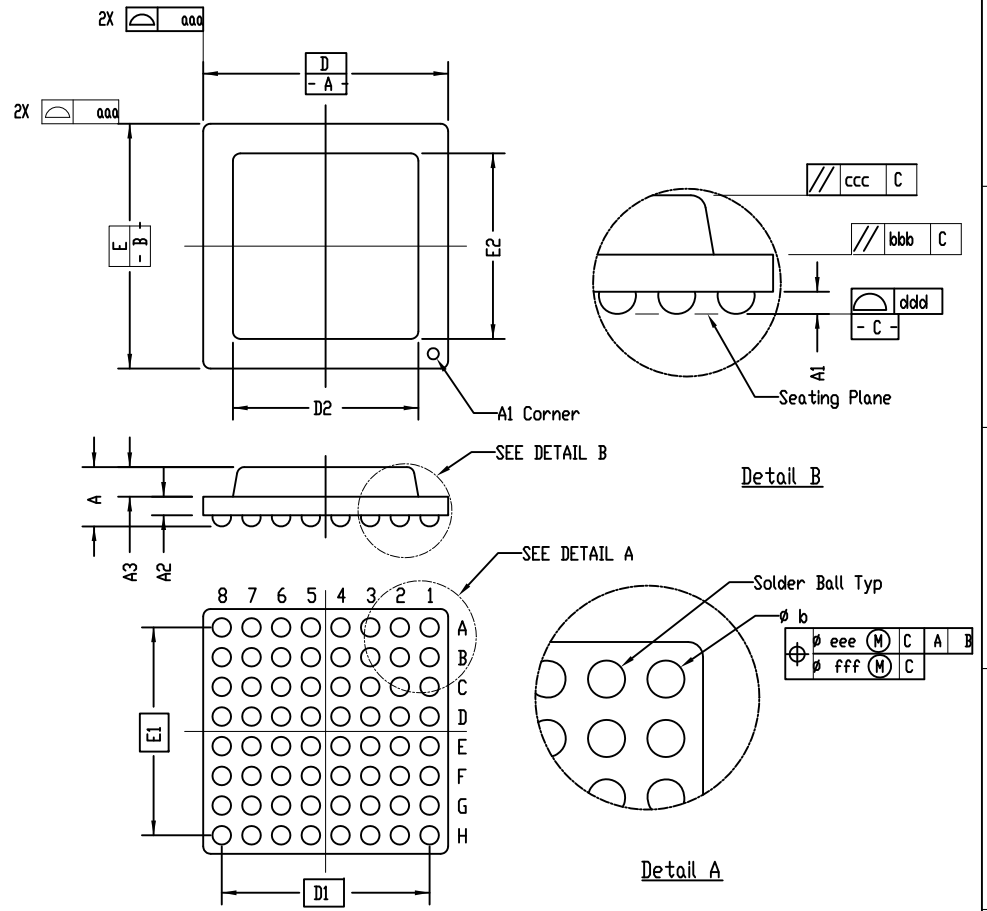
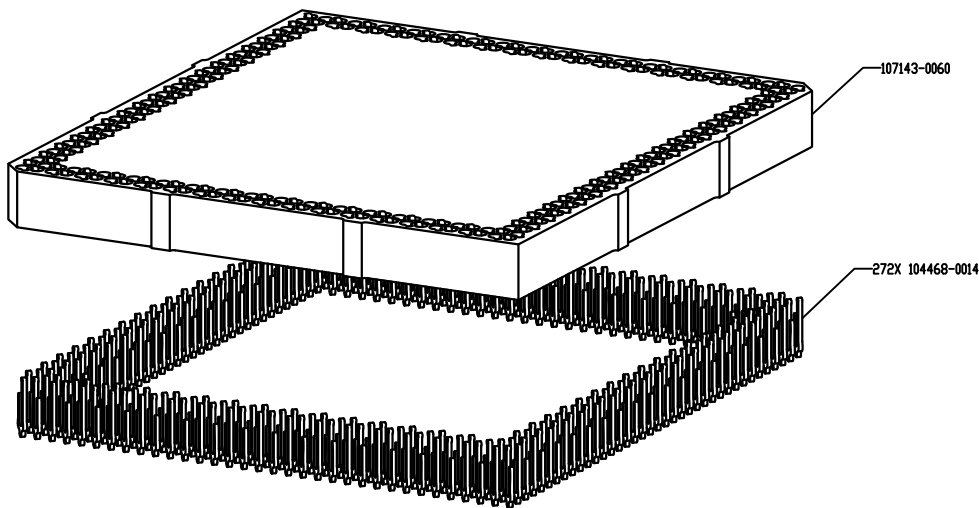
NOTES:

- 1 Dimension locates center of contact/slot.
- 2 Datum's **-B-** and **-C-** are determined by $\phi 0.315$ features on corner slots.
- 3 Tooling marks permitted. Maximum 0.10 protrusion shown.
- 4 **-E-** Center of contact pattern.
- 5 Reference HSIO Technologies specification 700001-0001 for solder attachment.
- 6 Reference HSIO Technologies specification 700001-0002 for application notes.
- 7 **-F-** Center of contact.
- 8 Dimension includes 0.10 protrusion.

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<small>UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN MILLIMETERS - DIM'S APPLY AFTER PLATING TOLERANCES UNLESS OTHERWISE NOTED:</small>		HSIO TECHNOLOGIES, LLC. 13300 67TH AVENUE NORTH MAPLE GROVE, MN 55311. 763-447-6260	
<small>ANGLES DECIMALS ±1° X.XX ±0.25 X.XX ±0.10 X.XXX ±0.050</small>		TITLE SCKT, 272G40 15.00-0.40	
LEGEND:	1 NOTE CALLOUT 2 REVISION CHANGE 3 ITEM NUMBER	SIZE: C CAD FORMAT: AUTOCAD DRAWING NO: 109000-XXXX SCALE: See Pg 1	REV: A SHEET: 2 of 2

SOCKET FOR DEVICES THAT ARE WITHIN THESE SPECIFICATIONS					
Lead Count	N	272	Package Size	D	15.00
Columns	ND	36	Ball Spacing	E	15.00
Rows	NE	36		D1	14.000
Pitch	e	0.40	Encapsulant/ Top Size	E1	14.000
Ball Size	b	0.25±0.05		D2	n/a
Total Thickness	A	n/a	Pattern Style	E2	n/a
Ball Height	A1	0.175 MIN		PERIMETER*	
Substrate Thickness	A2	n/a	Perimeter Rows	2	
Top Thickness	A3		Center Array	n/a	
Form Tolerances					
Edge	aaa	0.10	Bottom	ddd	0.08
Substrate	bbb	0.10	Position	eee	0.10
			top	ccc	0.10

All dimensions are in millimeters.



Generic Representation with Full Grid Array

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<small>TOLERANCES UNLESS OTHERWISE NOTED:</small> ANGLES DECIMALS ±1° X.XX ±0.25 X.X ±0.10 X.XXX ±0.050		TITLE SCKT, 272G40 15.00-0.40	
<small>LEGEND:</small> NOTE CALLOUT REVISION CHANGE ITEM NUMBER	<small>SCALE</small> C AUTOCAD	<small>DRAWING NO.</small> 109000-XXXX	<small>REV.</small> A
<small>SCALE</small> See Pg 1		<small>SHEET</small> 2of3	