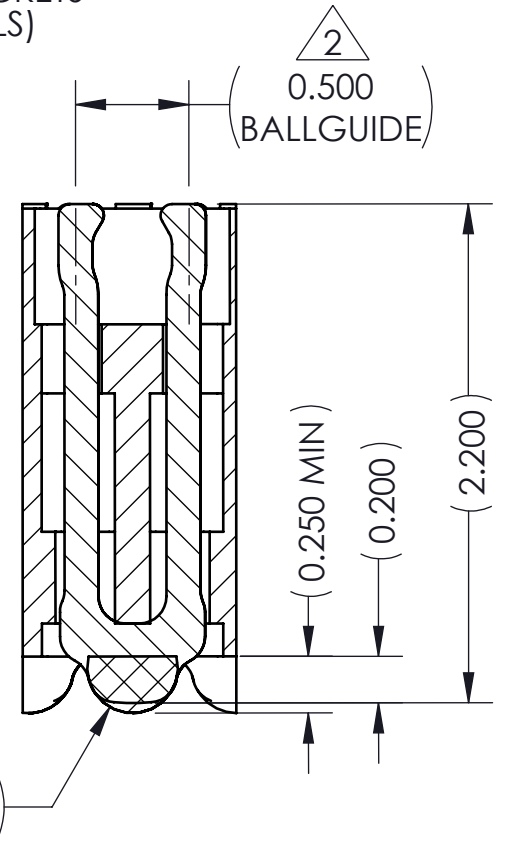
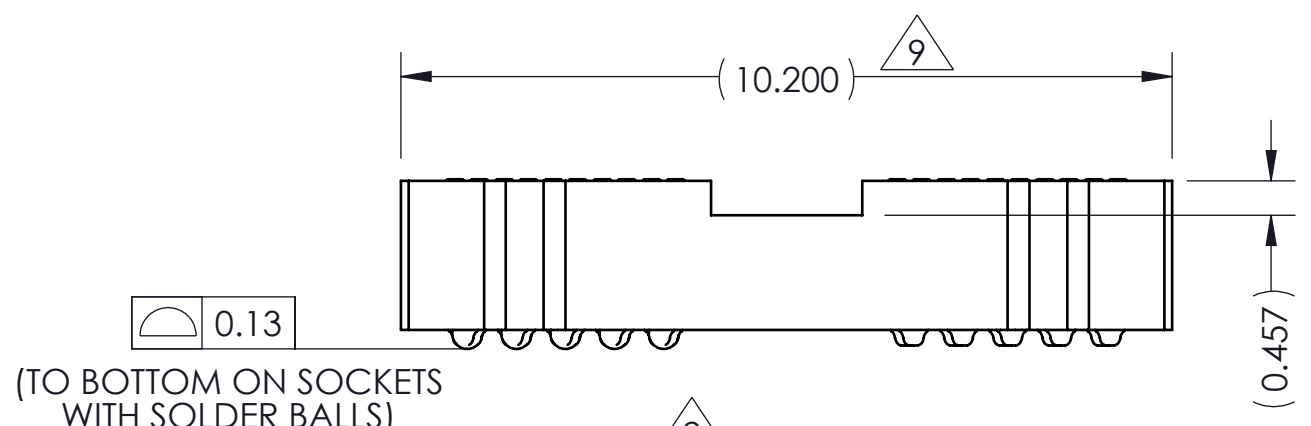
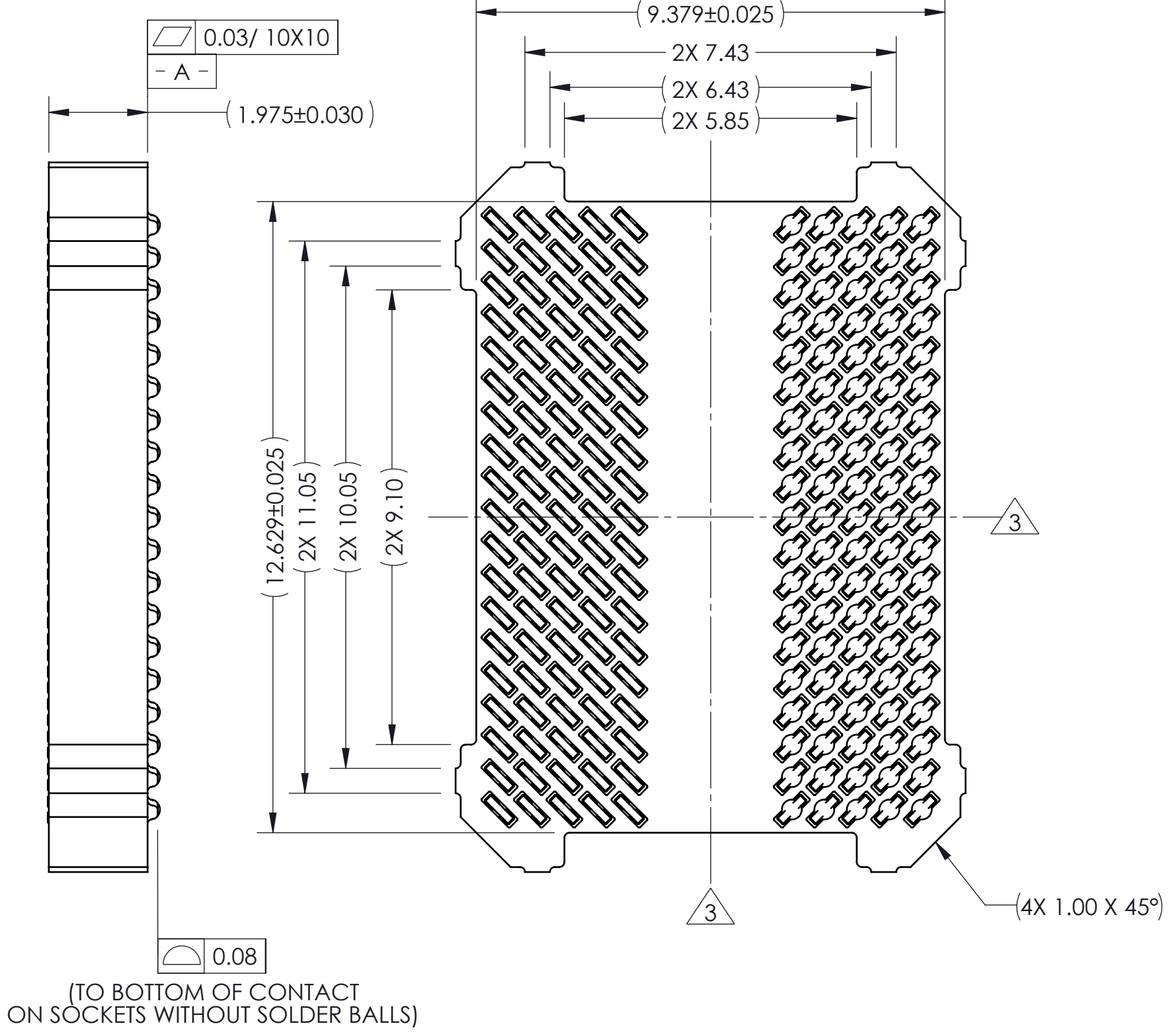
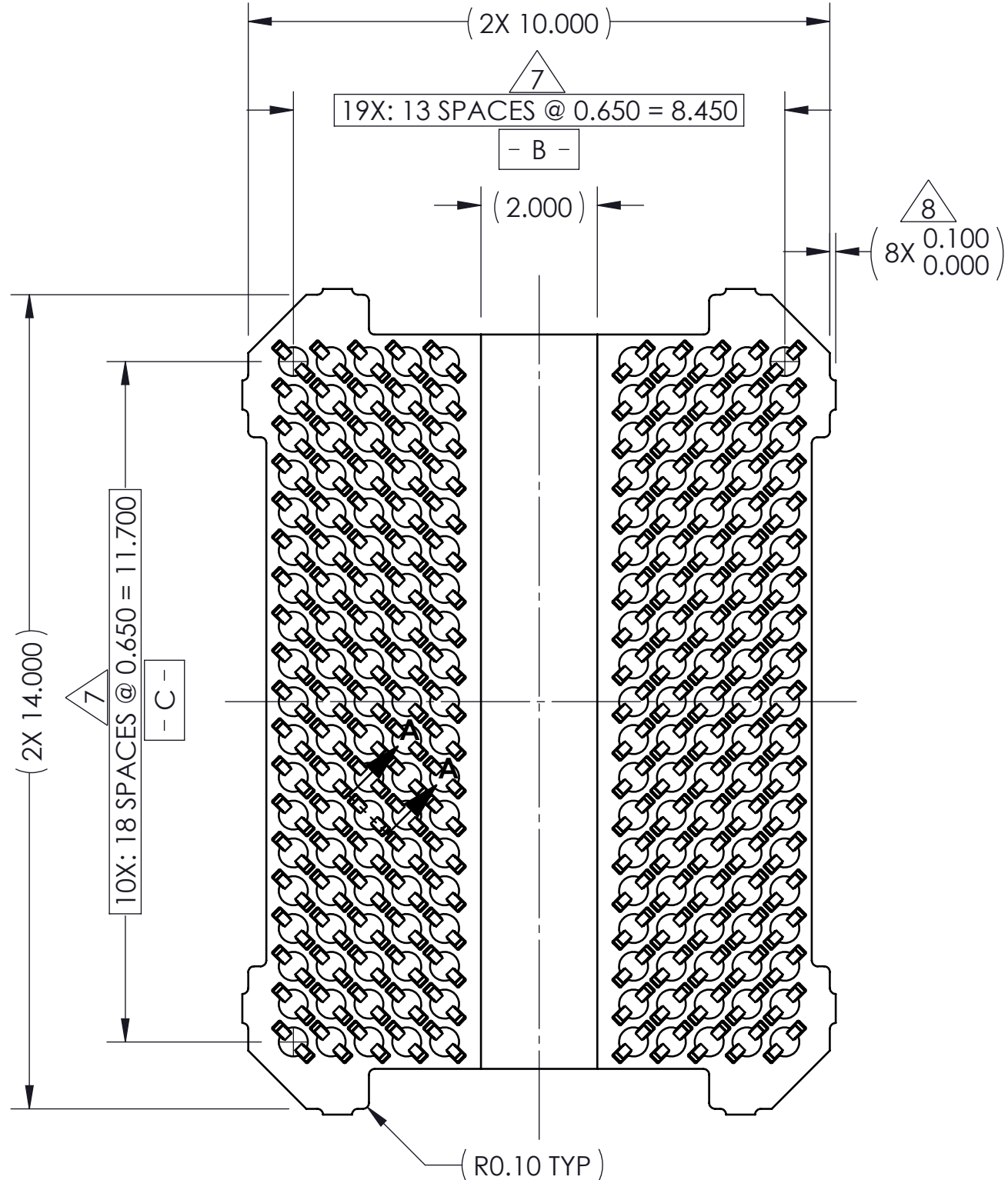


REV	ECO	BY	DESCRIPTION	APV	DATE
A	31670	RS	INITIAL DESIGN	NSJ	07/16/15
B	31825	RS	PRESS DEVICE WAS 103864-0030	NSJ	09/21/16



- NOTES:
- UNLESS OTHERWISE NOTED, ALL FEATURES LOCATED $\oplus 0.10$ A B C
 - DATUM'S - B - AND - C - ARE DETERMINED BY $\varnothing 0.500$ FEATURES ON CORNER SLOTS.
 - CENTER OF CONTACT/SOLDER BALL PATTERN.
 - REFERENCE HSIO TECHNOLOGIES SPECIFICATION 700001-0001 FOR SOLDER ATTACHMENT.
 - REFERENCE HSIO TECHNOLOGIES SPECIFICATION 700001-0002 FOR APPLICATION NOTES.
 - DIMENSION LOCATES CENTER OF CONTACT/SLOT.
 - TOOLING MARKS PERMITTED. MAXIMUM 0.10 PROTRUSION SHOWN.
 - DIMENSION INCLUDES 0.10 PROTRUSION.

PART NUMBER	DESCRIPTION
111008-0001	SCKT, 190GRY 10.0X14.0-0.65 (EUTECTIC SOLDER BALL)
111008-0002	SCKT, 190GRY 10.0X14.0-0.65 (SAC305 SOLDER BALL)
111008-0003	SCKT, 190GRY 10.0X14.0-0.65 (WITHOUT SOLDER BALL)
103864-0109	PRESS DEVICE INSERT, 10.0 X 14.0 (SOLD SEPARATELY)
104553-0396	STENCIL, FLEX, 190GRY 10.0X14.0-0.65 (SOLD SEPARATELY)
105900-0004	EXTRACTION TOOL, 4 X 53 (SOLD SEPARATELY)

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UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN MILLIMETERS	
TOLERANCES:	
ANGULAR: $\pm 1^\circ$	
X.X ± 0.25	
X.XX ± 0.10	
X.XXX ± 0.050	
INTERPRET GEOMETRIC TOLERANCING PER:	
MATERIAL	SEE B.O.M
FINISH	
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN RS	07/16/15
CHECKED NSJ	07/16/15

LEGEND:

- △ NOTE CALLOUT
- REVISION CHANGE
- ITEM NUMBER

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

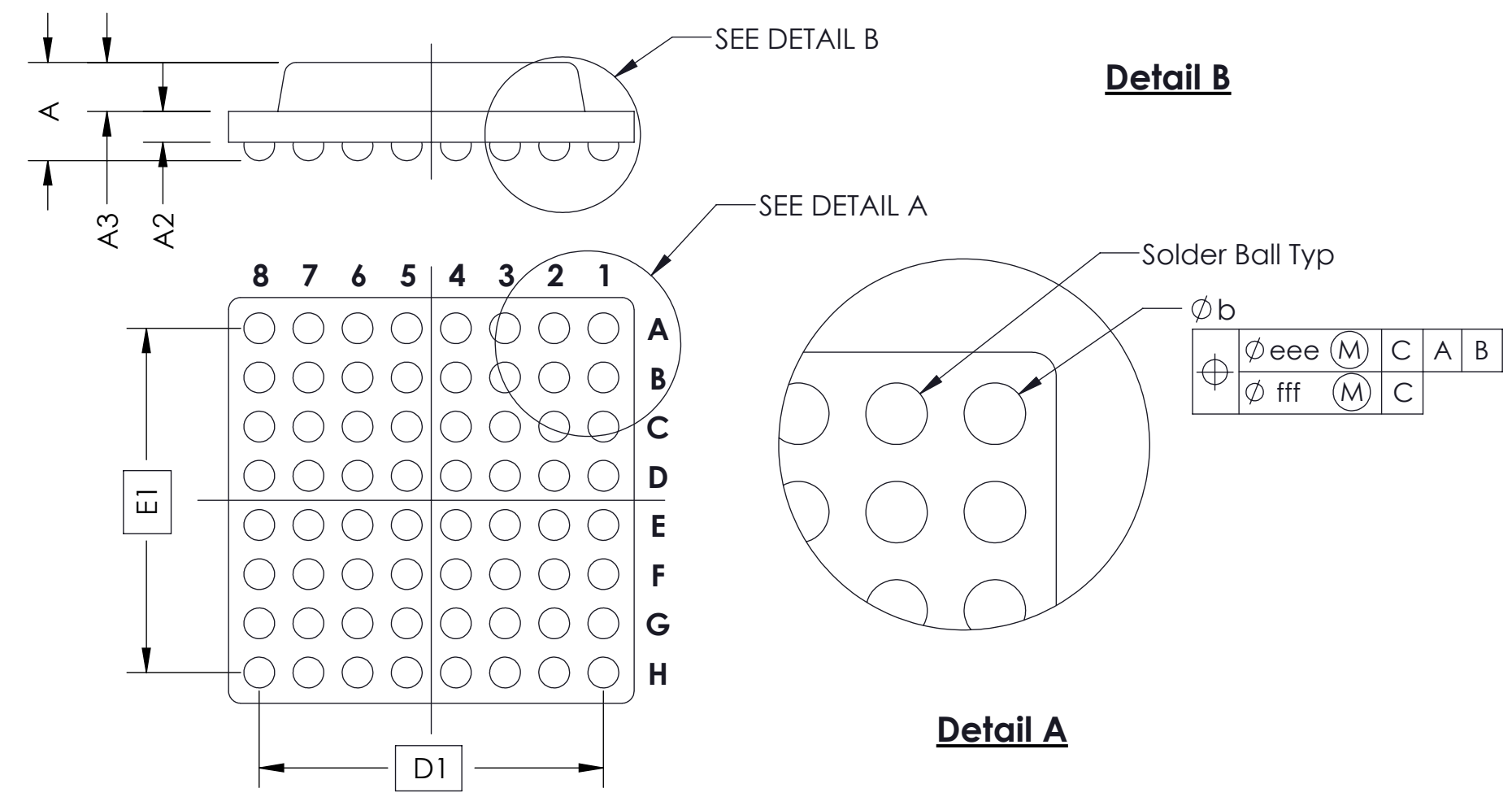
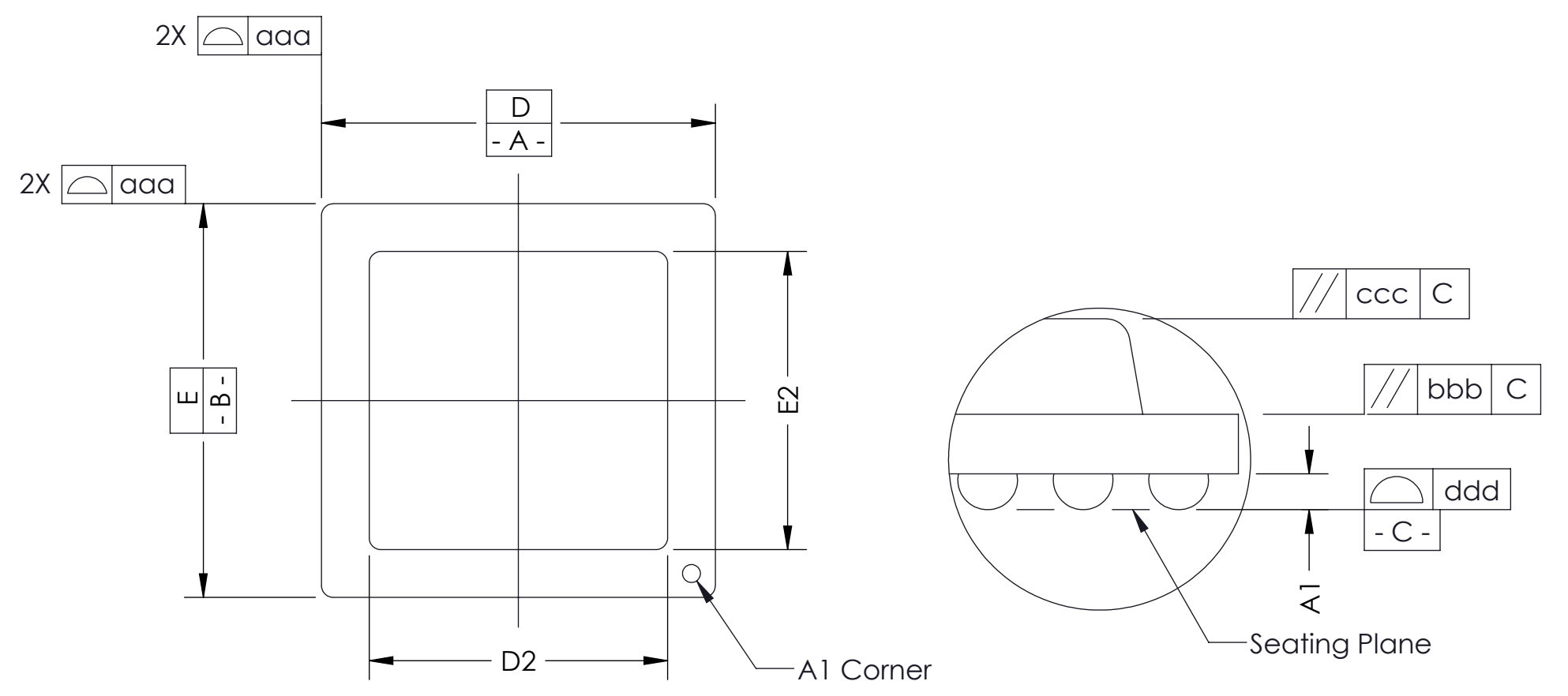
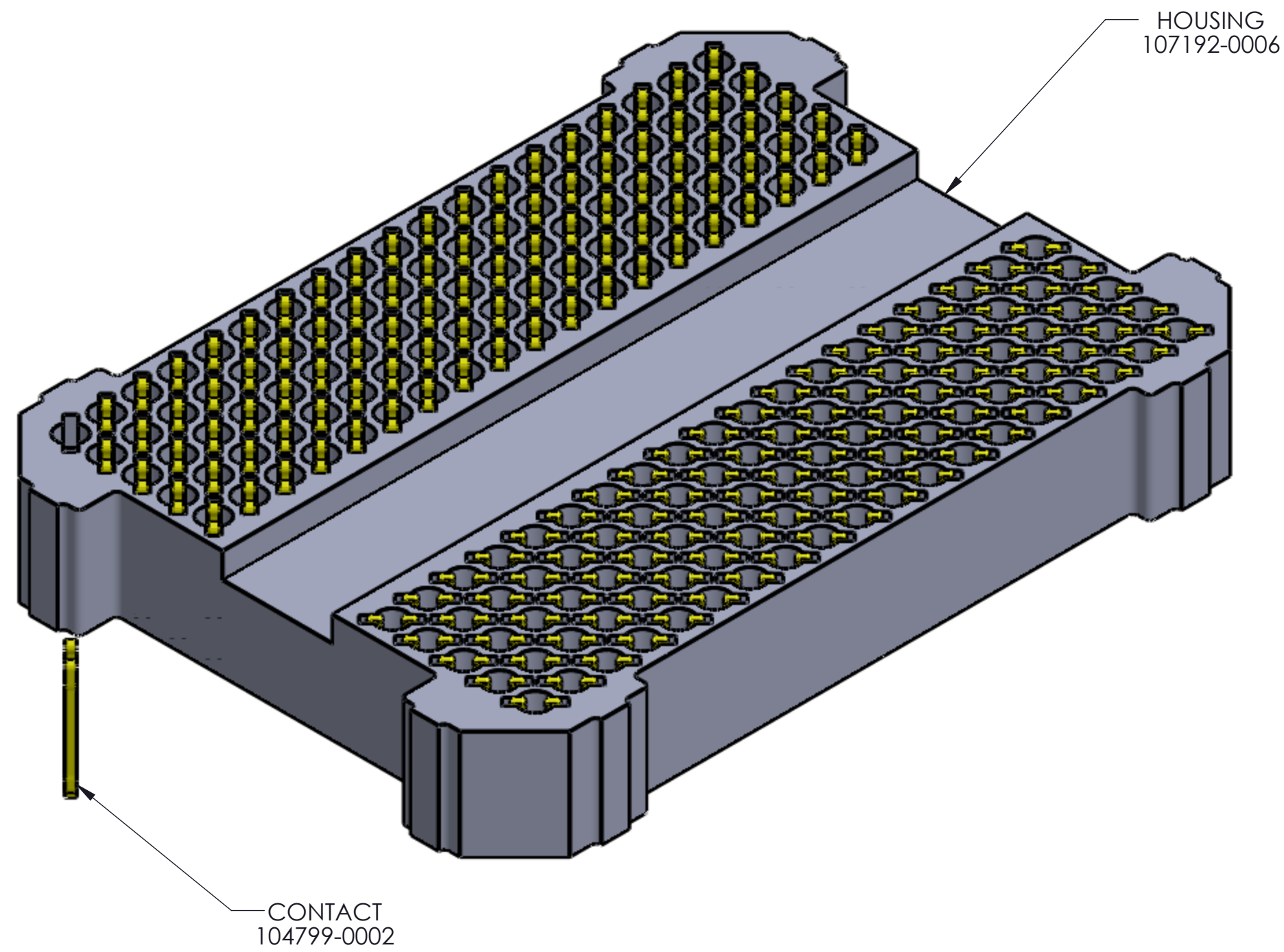
TITLE:
 SCKT, 190GRY
 10.0X14.0-0.65

DWG. NO. **111008-XXXX** REV **B**

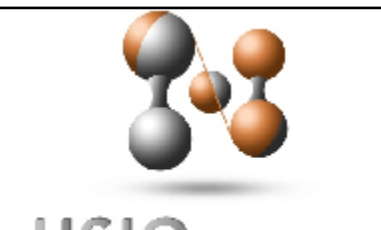
SCALE: 10:1 SIZE: C SHEET 1 OF 2

SOCKET FOR DEVICES THAT ARE WITHIN THESE SPECIFICATIONS				
Lead Count	N	190	Package Size	D 10.00
Columns	ND	10		E 14.00
Rows	NE	19	Ball Spacing	D1 8.450
Pitch	e	0.650		E1 11.700
Ball Size	b	0.40±0.05	Encapsulant/ Top Size	D2 N/A
Total Thickness	A	N/A		E2 N/A
Ball Height	A1	0.250 MIN	Pattern Style	IRREGULAR
Substrate Thickness	A2	N/A	Perimeter Rows	N/A
Top Thickness	A3		Center Array	N/A
Form Tolerances				
Edge	aaa	0.20	Bottom	ddd 0.15
Substrate	bbb	0.20	Position	eee 0.20
Top	ccc	0.20	Position	fff 0.10

* All dimensions are in millimeters.



Generic Representation with Full Grid Array

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	INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED NSJ 07/16/15	LEGEND:	REV B	
	MATERIAL SEE B.O.M		△ NOTE CALLOUT		
	FINISH		○ REVISION CHANGE		
DO NOT SCALE DRAWING		○ ITEM NUMBER			