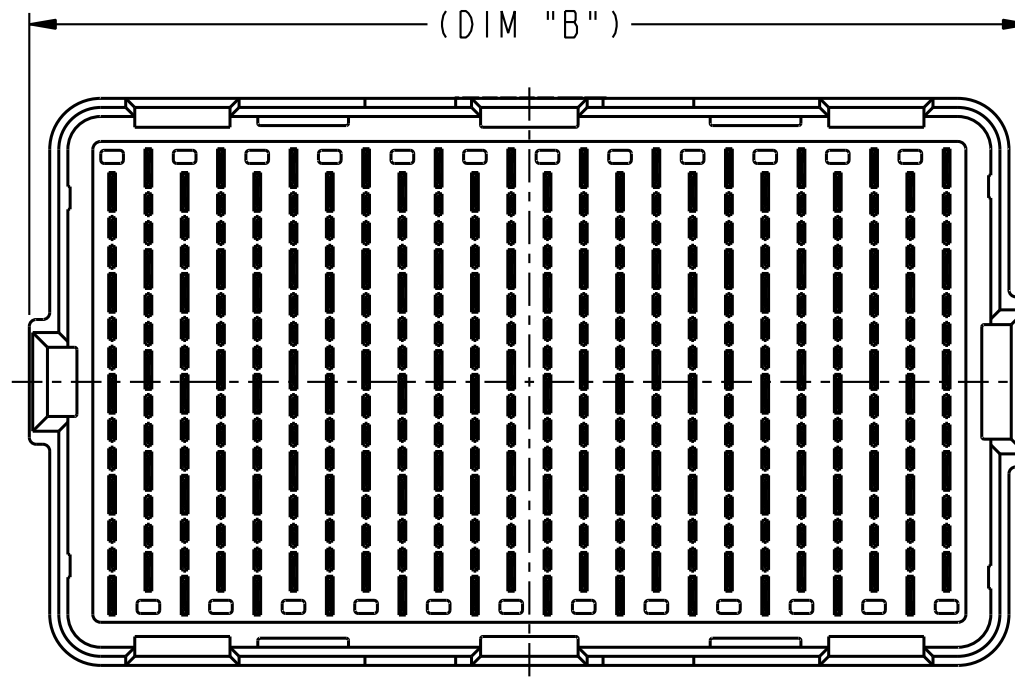
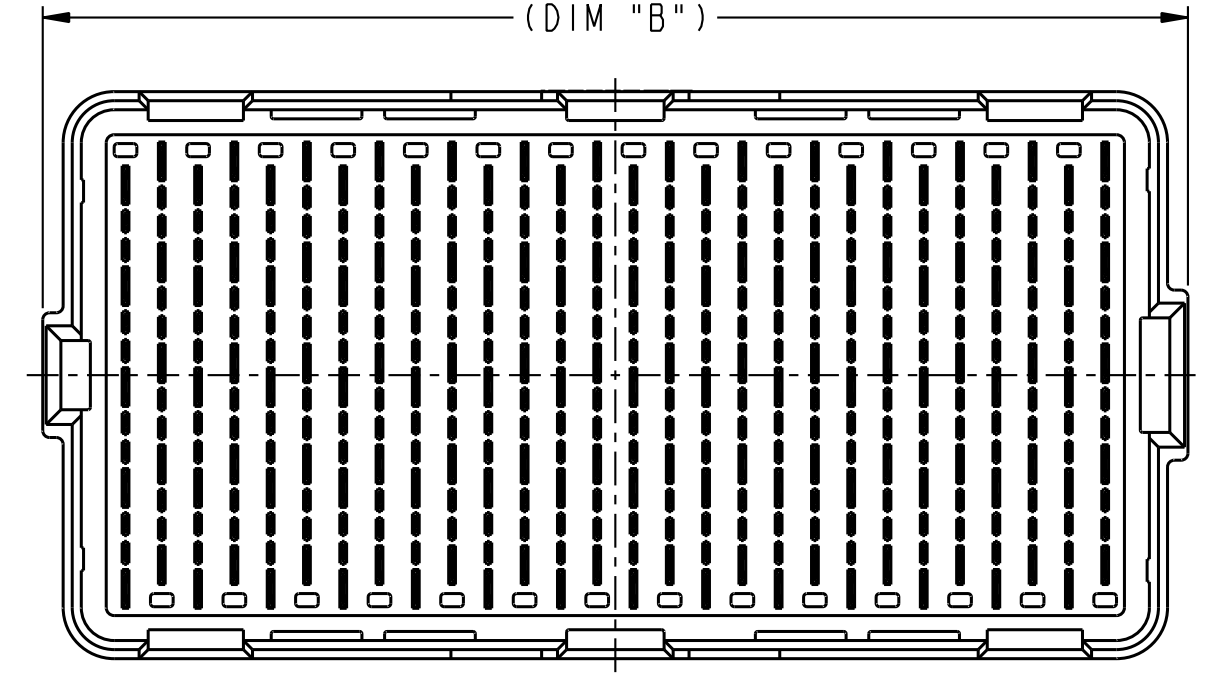


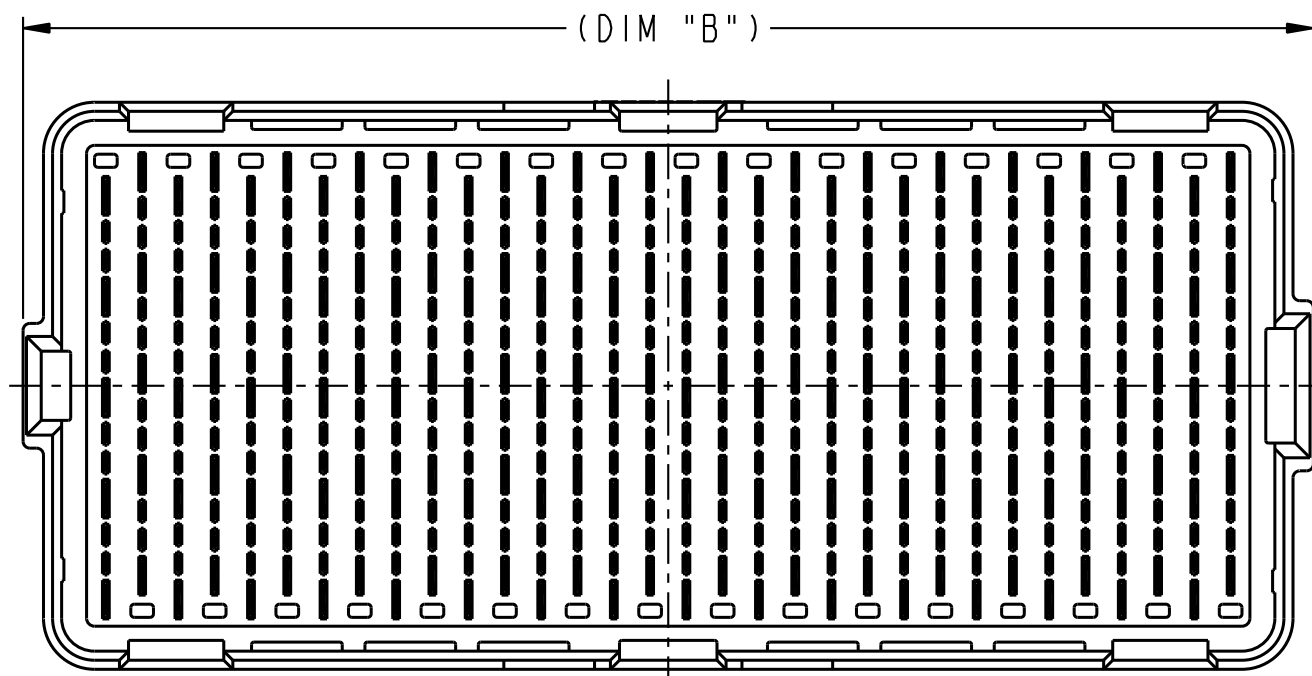
10152597
4PR 20 COLUMNS



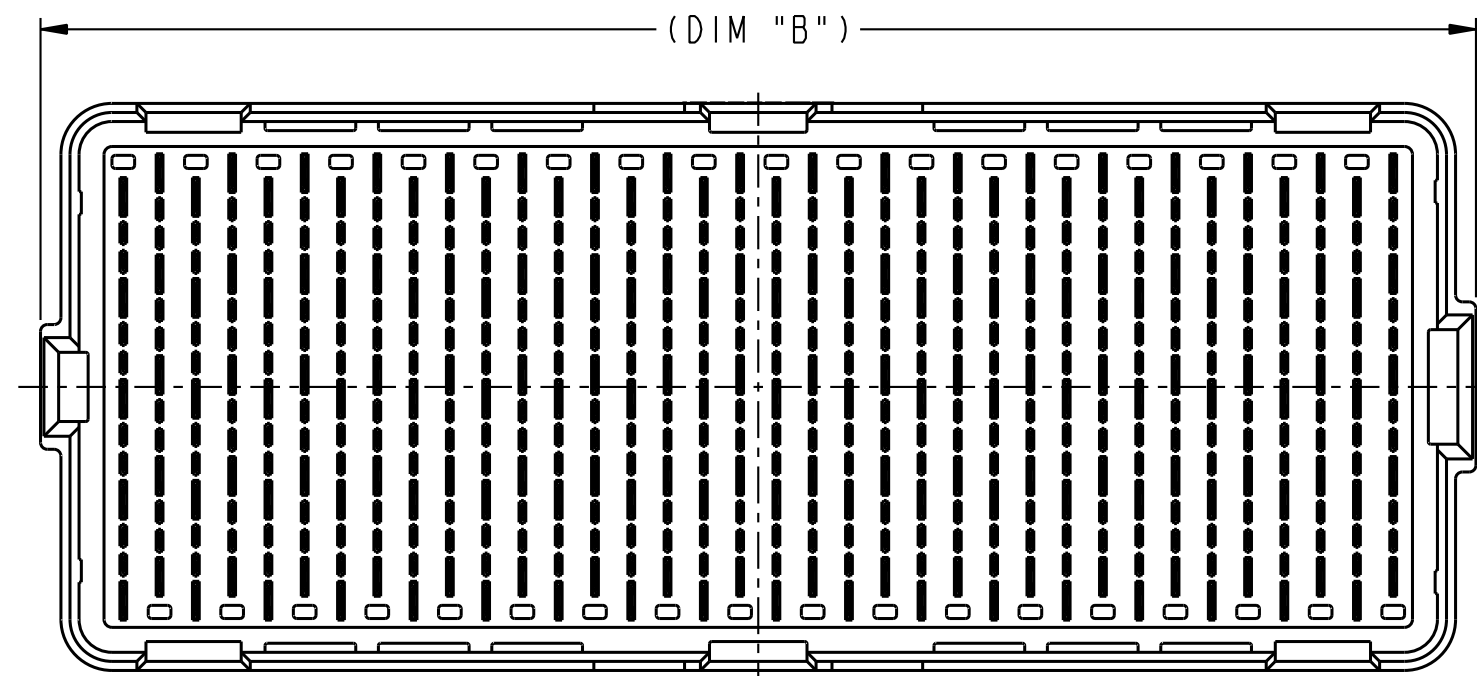
10152408
4PR 24 COLUMNS



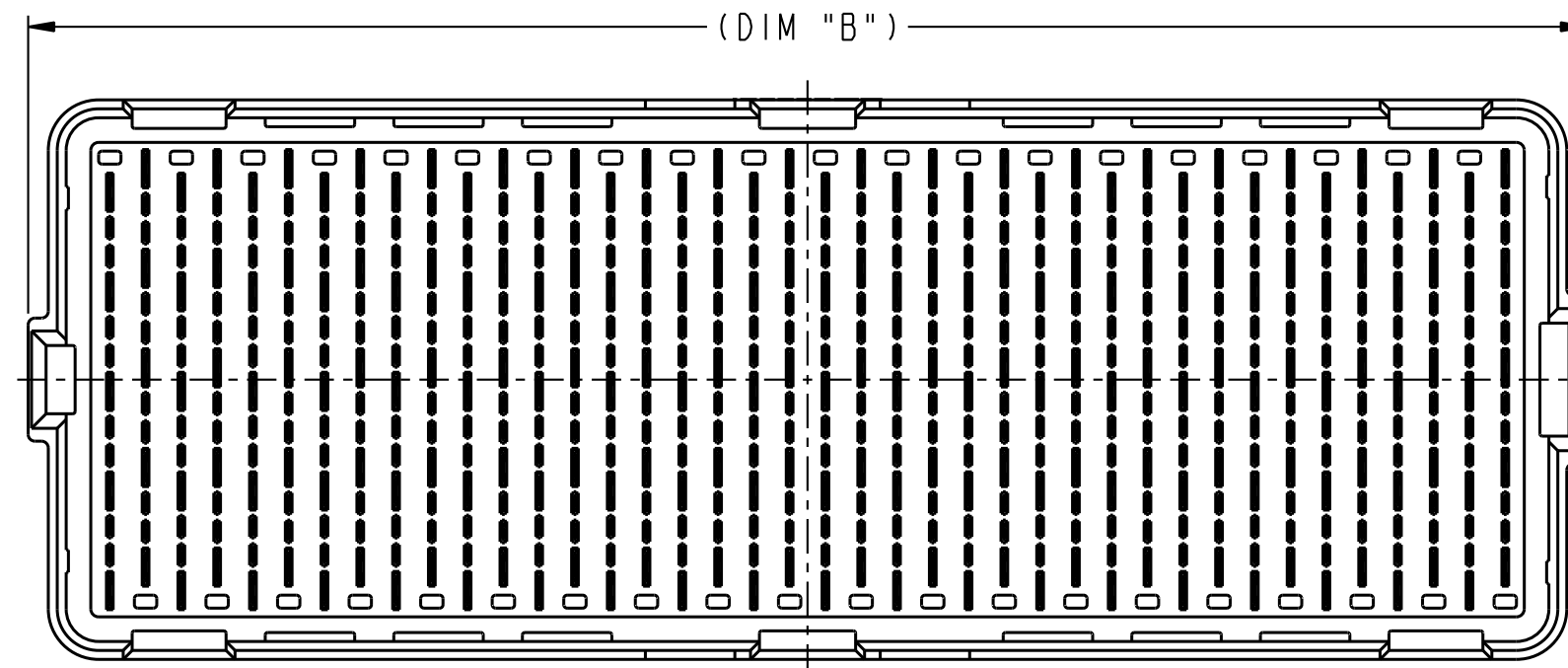
10154142
4PR 28 COLUMNS



10154144
4PR 32 COLUMNS



10152412
4PR 36 COLUMNS



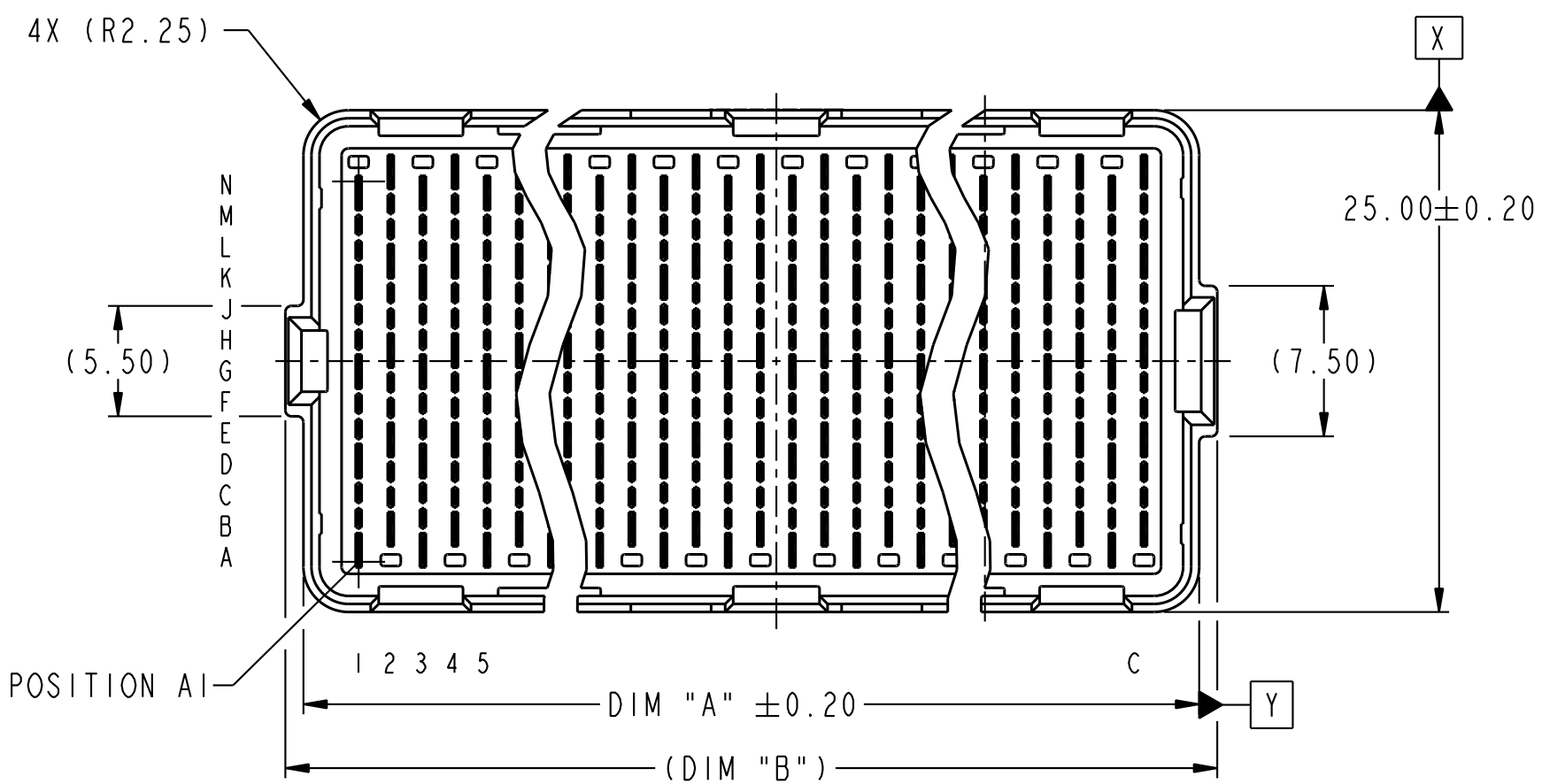
10152414
4PR 40 COLUMNS

PRELIMINARY

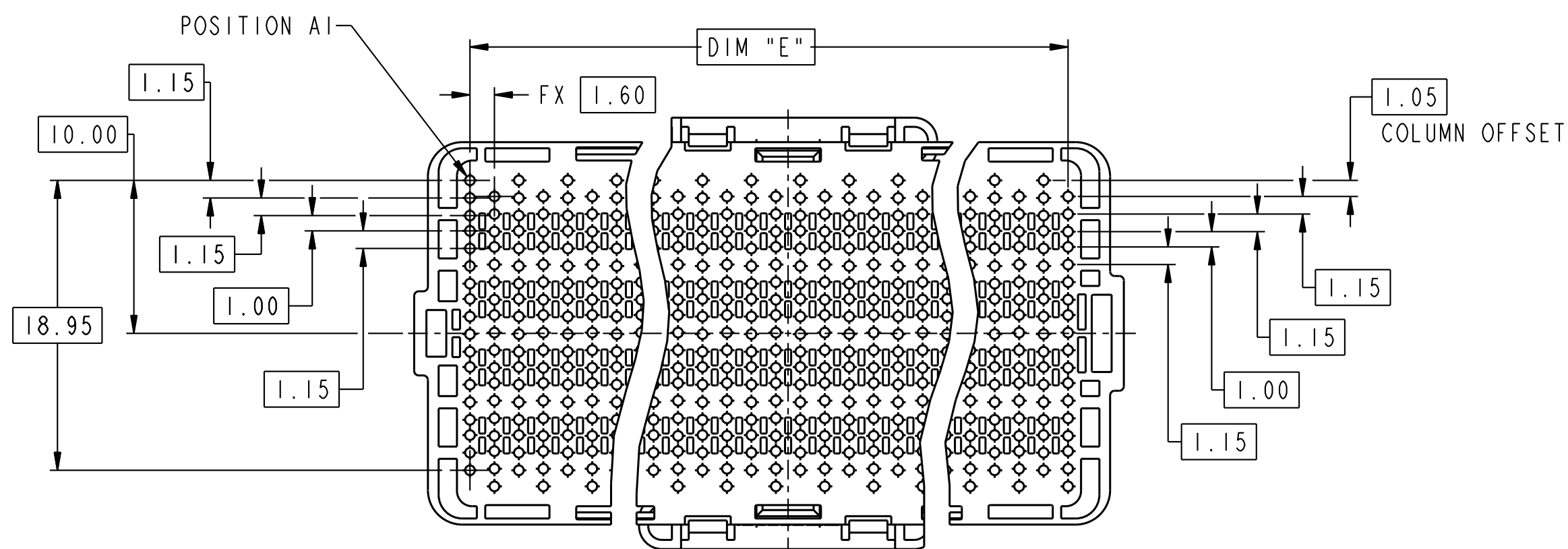
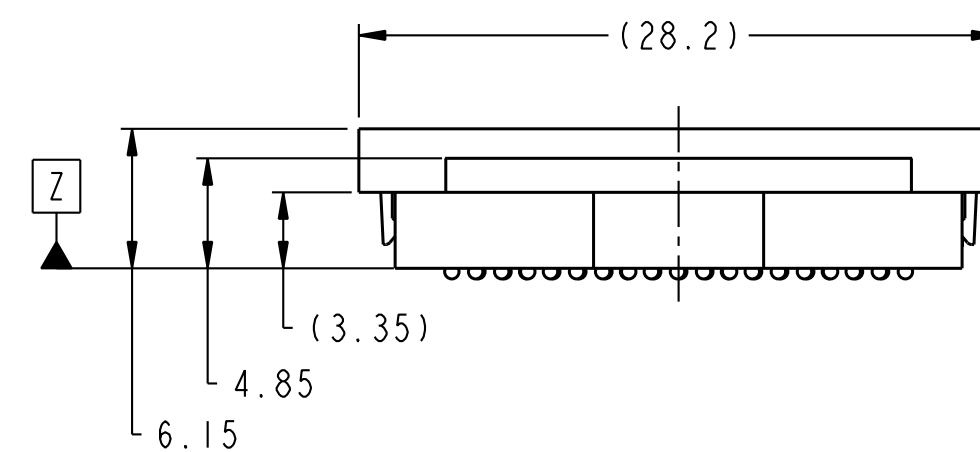
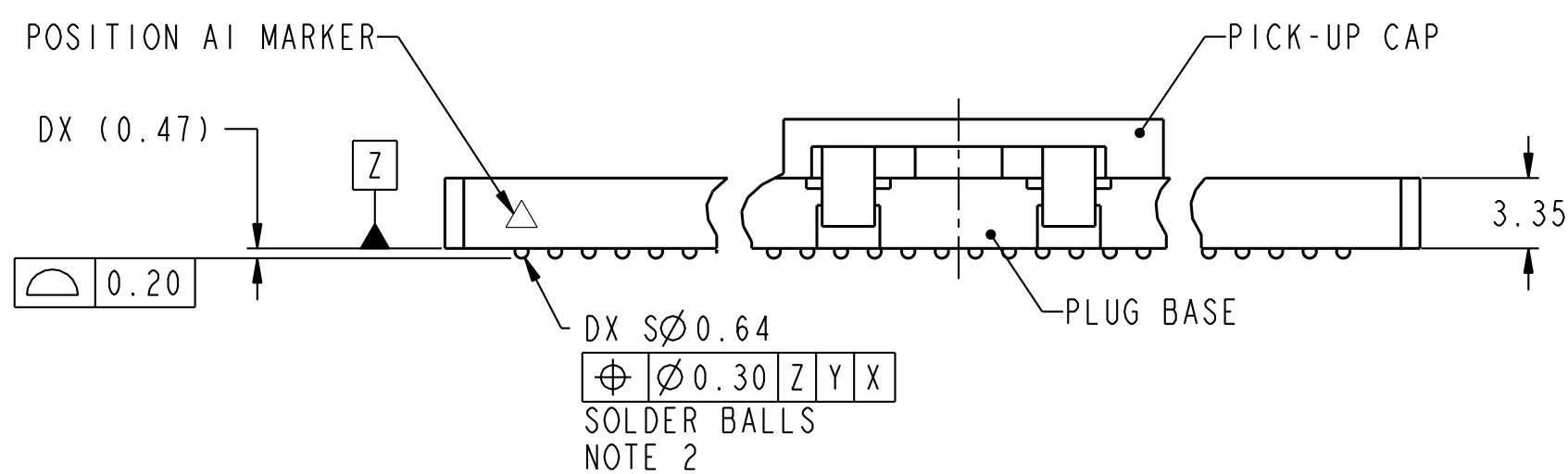
spec ref	-			dr	HCL-MD	2019-08-12	projection	mm	size	A2	scale	3:1
tolerance std	ANSI Y14.5 ANSI Y14.5			eng	R. JOHNSON	2019-08-12			ecn no			
TOLERANCES UNLESS OTHERWISE SPECIFIED			chr			product family			M-Series 56	rel level	In Work	
surface	linear	0.X	±0.3		0mm PLUG ASSEMBLY					10154178	rev	I
		0.XX	±0.10		4 PR, 92Ω, FAMILY DRAWING							
		0.XXX	±0.05		cat. no. -							
ANSI Y14.5	angular	0°	±2°	Product - Customer Drw			sheet 1 of 5					

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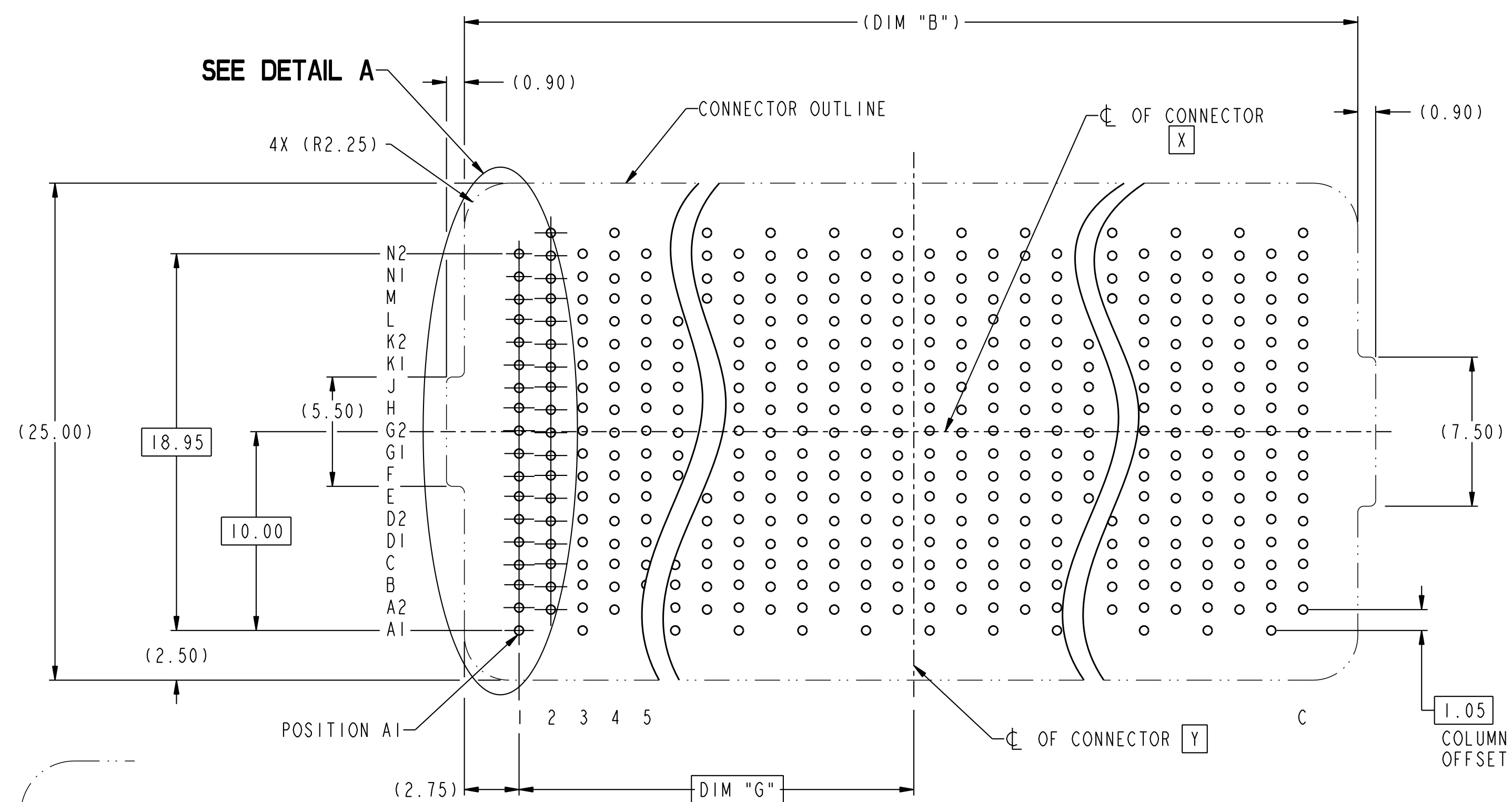


VACUUM PICK-UP CAP NOT SHOWN FOR CLARITY

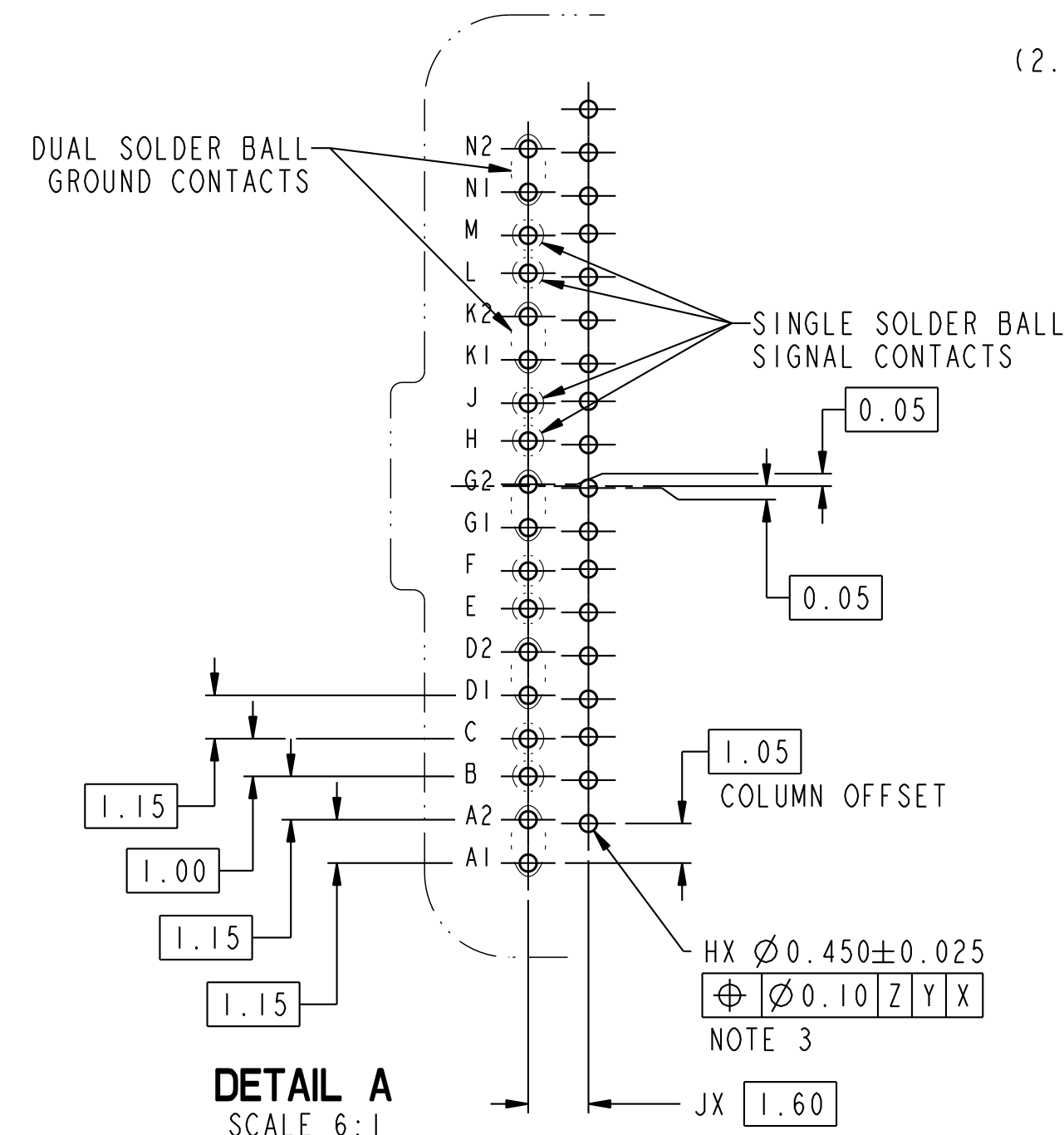


PRELIMINARY

spec ref	-	dr	HCL-MD	2019-08-12	projection	mm	size	A2	scale	3:1
tolerance std	ANSI Y14.5	eng	R. JOHNSON	2019-08-12			ecn no	rel level	In Work	rev
ANSI Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr		product family						
surface	linear	0.X	±0.3	Amphenol FCI	0mm PLUG ASSEMBLY 4 PR, 92Ω, FAMILY DRAWING	cat. no.	Product - Customer Drw	sheet 2 of 5	10154178	I
ANSI Y14.5	angular	0°	±2°							



PCB PAD LAYOUT



DETAIL A
SCALE 6:1

PRELIMINARY

spec ref	-	dr	HCL-MD	2019-08-12	projection	mm	size	A2	scale	5:1
tolerance std	ANSI Y14.5	eng	R. JOHNSON	2019-08-12			ecn no	rel level	In Work	rev
ANSI Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr		product family						
surface	linear	0.X	±0.3	Amphenol FCI		0mm PLUG ASSEMBLY 4 PR, 92Ω, FAMILY DRAWING		10154178		I
		0.XX	±0.10							
		0.XXX	±0.05							
ANSI Y14.5	angular	0°	±2°	cat. no.	-	Product - Customer Drw	sheet 3 of 5			

I	2	3	4	5	6	7	8										
								PRODUCT NUMBER	PICK-UP CAP	CONTACT PLATING	SOLDER BALL	NOTES	DIFFERENTIAL PAIR COUNT	SIGNAL PIN COUNT	GROUND PIN COUNT	DIM "A"	DIM "B"
								WIDTH OF CONNECTOR WALL	OVERALL WIDTH OF CONNECTOR	NUMBER OF COLUMNS	NUMBER OF SOLDER BALLS	DISTANCE FROM FIRST TO LAST COLUMN	PITCH	DISTANCE FROM POSITION A1 COLUMN TO ϕ OF DATUM "Y"	NUMBER OF PCB PADS	PCB PAD COLUMN PITCH	
A	10152597-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	80	160	100	35.90	37.70	20	360	30.40	19	15.20	360	19
	10152597-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												
	10152408-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	96	192	120	42.30	44.10	24	432	36.80	23	18.40	432	23
	10152408-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												
	10154142-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	112	224	140	48.70	50.50	28	504	43.20	27	21.60	504	27
	10154142-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												
	10154144-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	128	256	160	55.10	56.90	32	576	49.60	31	24.80	576	31
	10154144-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												
	10152412-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	144	288	180	61.50	63.30	36	648	56.00	35	28.00	648	35
	10152412-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												
B	10152414-192S	YES	30 μ in (0.76 μ m) GXT	SnPb	-	160	320	200	67.90	69.70	40	720	62.40	39	31.20	720	39
	10152414-192SLF	YES	30 μ in (0.76 μ m) GXT	SnAgCu LEAD FREE	8												

Amphenol FCI

PRELIMINARY

spec ref		-		dr	HCL-MD	2019-08-12	projection	mm	size	A2	scale	1:1	
tolerance std		ANSI Y14.5 ANSI Y14.5		eng	R. JOHNSON	2019-08-12			ecn no		rel level		
TOLERANCES UNLESS OTHERWISE SPECIFIED				chr		product family			M-Series 56		In Work		
surface		linear	0.X ±0.3 0.XX ±0.10 0.XXX ±0.05	appr		Amphenol FCI			0mm PLUG ASSEMBLY		diag no	10154178	rev
ANSI Y14.5		angular	0° ±2°	cat. no.		-		Product - Customer Drw		sheet 4 of 5			

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NOTES:

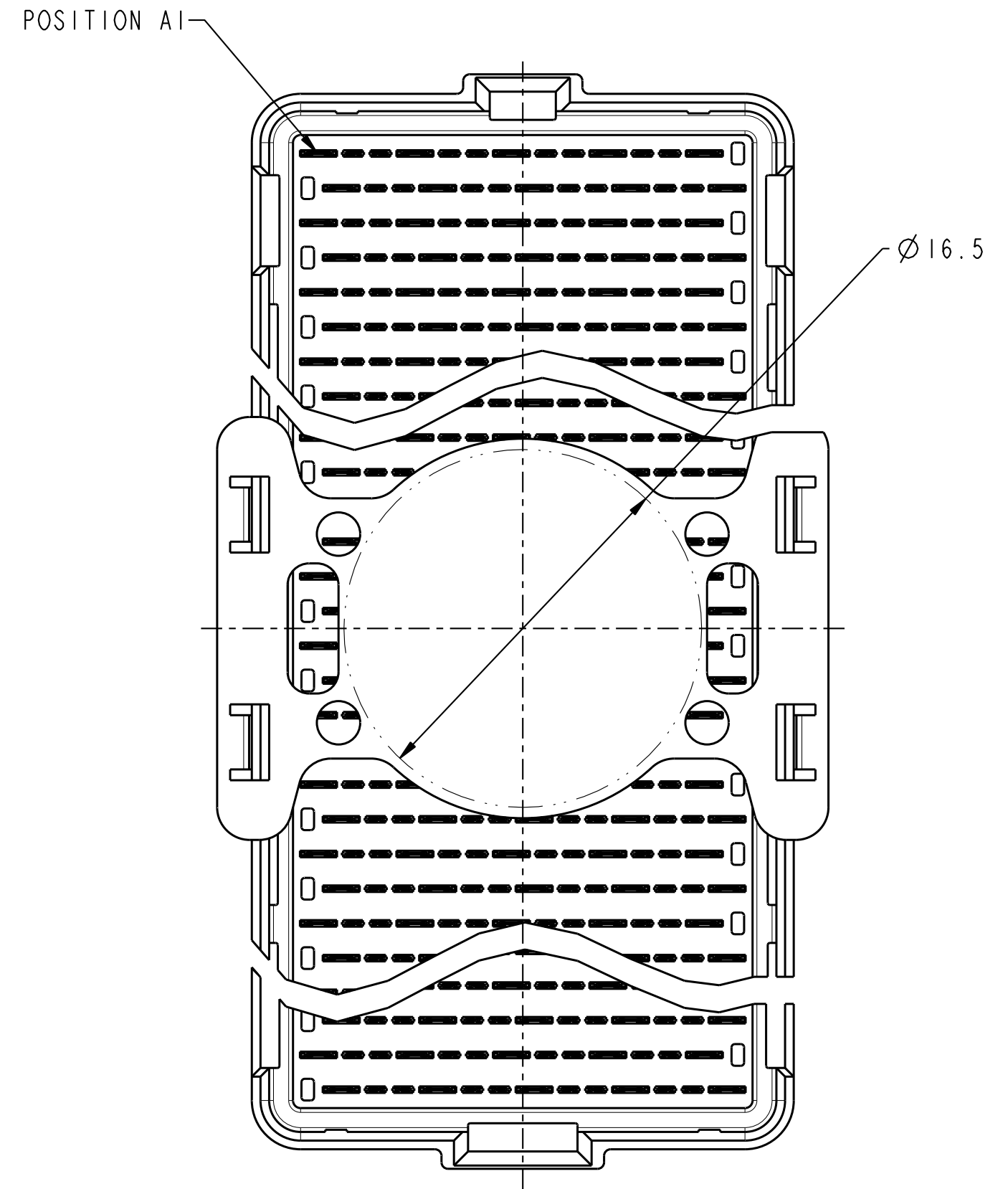
1. MATERIAL:
 HOUSING: HIGH TEMPERATURE THERMOPLASTIC
 UL RATING: 94 V-0

 PICK-UP CAP: HIGH TEMPERATURE THERMOPLASTIC
 UL RATING: 94 V-0

 CONTACT: COPPER ALLOY

 PLATING (CONTACT): GXT (SEE TABLE)

 SOLDER BALL: (SEE TABLE) EUTECTIC SnPb OR LEADFREE 95.5 Sn/4Ag/0.5Cu
- 2 SOLDER BALLS WILL NOT BE A PERFECT SPHERICAL SHAPE DUE TO REFLOW ATTACHMENT.
- 3 SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE DOC. NO. GS-20-0553.
4. PRODUCT SPECIFICATION: GS-12-1466
 APPLICATION SPECIFICATION: GS-20-0553
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
6. MATED HEIGHT AFFECTED BY CUSTOMER'S PCB PAD SIZE, PLATING, SOLDER REFLOW PROFILE, AND SOLDER PASTE.
7. FOR PROPER APPLICATION FOLLOW AICC APPLICATION SPECIFICATION GS-20-0553. LEAD FREE SOLDER BALLS WILL NOT SOLDER PROPERLY IN A LEADED SOLDER PROCESS DUE TO A HIGHER REFLOW TEMPERATURE. LEAD FREE PRODUCT IS THEREFORE NOT BACKWARDS COMPATIBLE WITH LEADED OR SOME SOLDERING OPERATIONS.
- 8 THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004. PRODUCT MEETING THIS DIRECTIVE IS IDENTIFIED IN THE LOT CODE NUMBER MARKED ON EACH PART BY HAVING AN "X" IN THE SEVENTH CHARACTER POSITION.
9. FOR PURPOSES OF MAXIMIZING MANUFACTURING UTILIZATION, PLATED TERMINALS WITH HIGHER PLATING THICKNESS THAN THE MINIMUM OF 30µ" MAY BE SUBSTITUTED.



VACUUM PICK-UP AREA
SCALE 4:1

PRELIMINARY

spec ref -		dr HCL-MD	2019-08-12	projection	mm	size A2	scale 5:1
tolerance std ANSI Y14.5		eng R. JOHNSON	2019-08-12			ecn no	rel level
ANSI Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED					
surface	linear	0.X	±0.3		0mm PLUG ASSEMBLY 4 PR, 92Ω, FAMILY DRAWING	10154178	rev I
		0.XX	±0.10				
		0.XXX	±0.05				
ANSI Y14.5	angular	0°	±2°	cat. no.	Product - Customer Drw	sheet 5 of 5	

Amphenol FCI

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