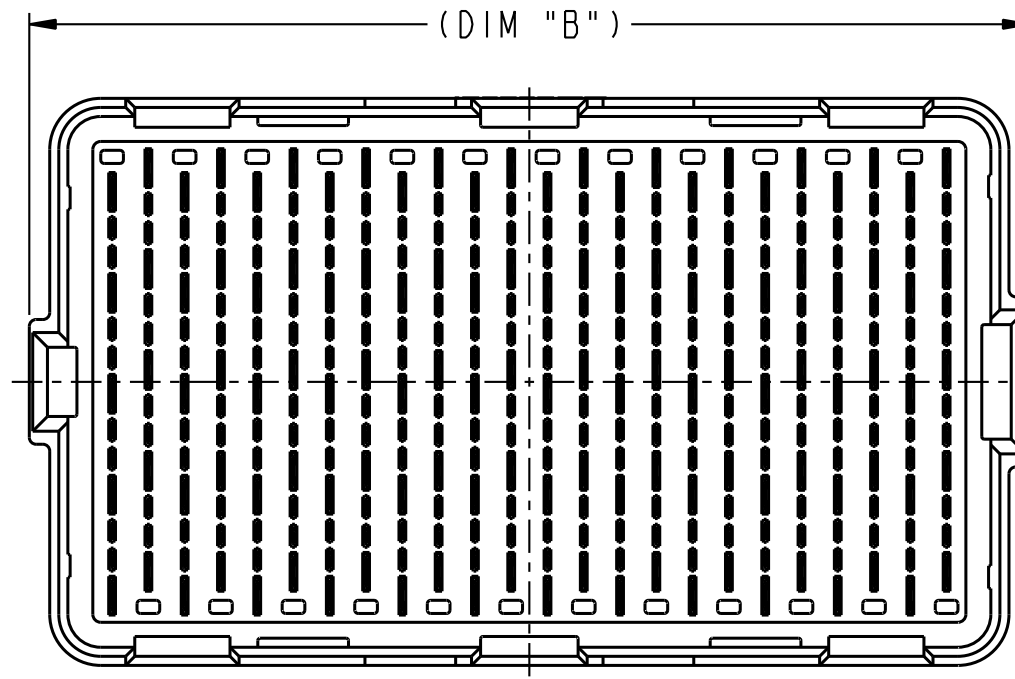
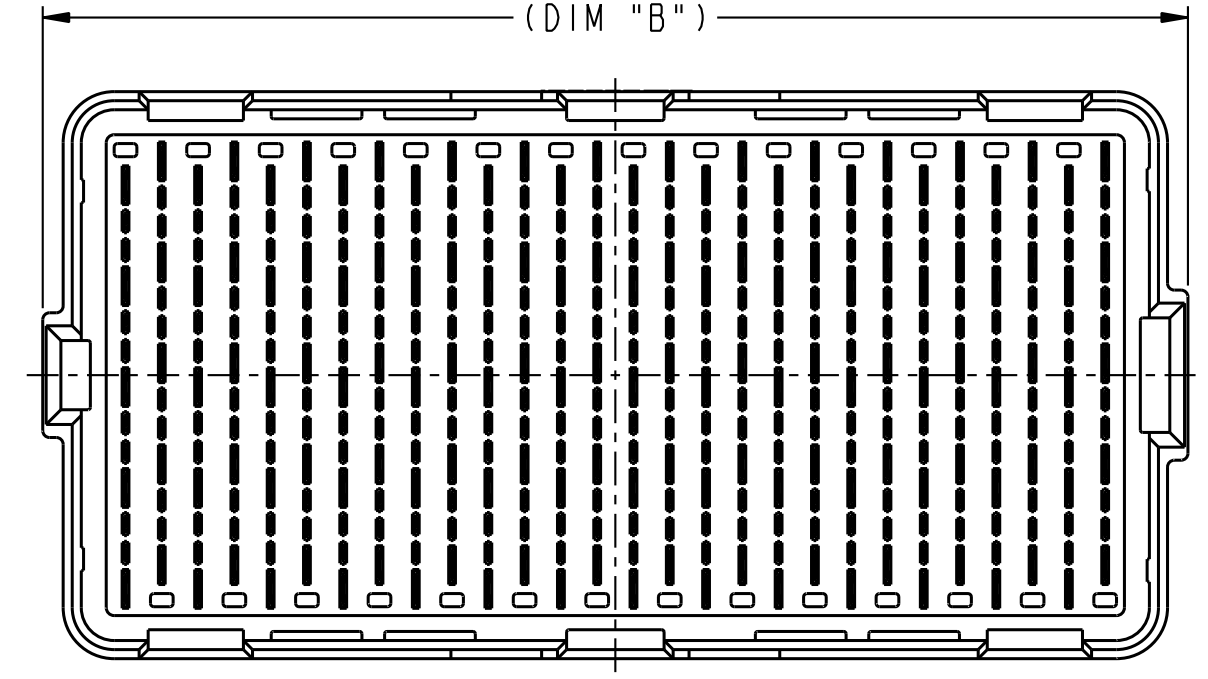


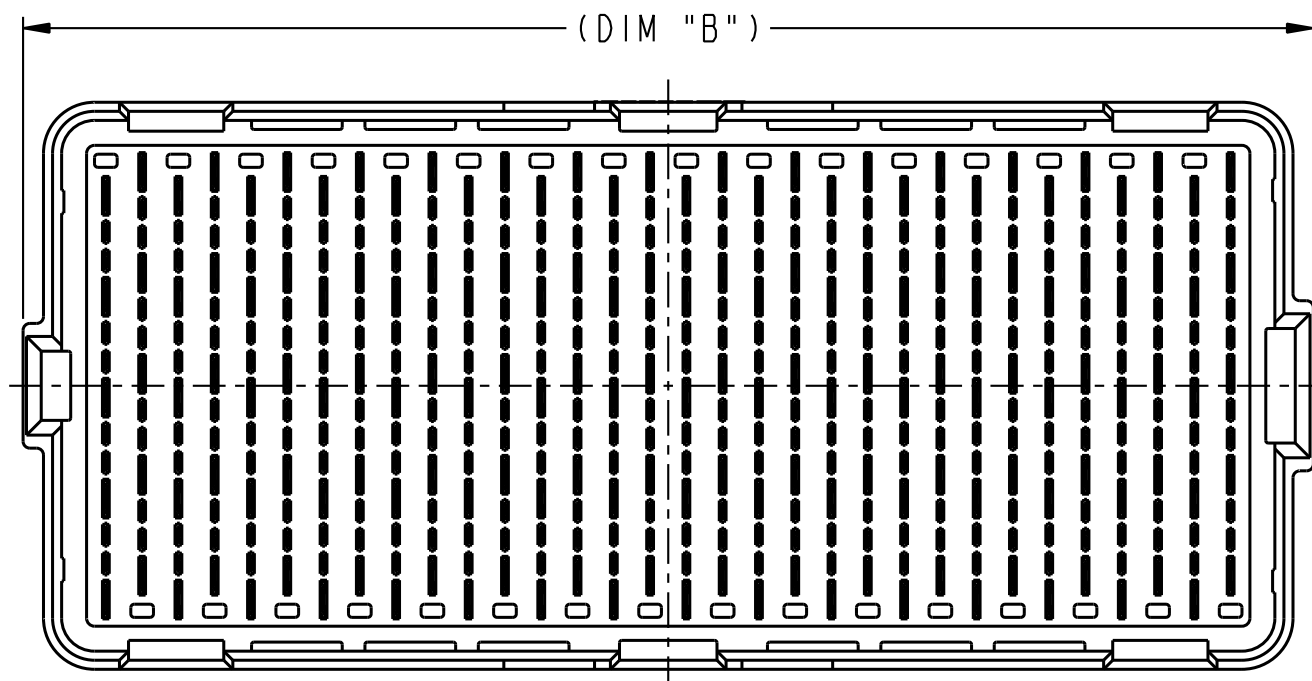
**10152597**  
4PR 20 COLUMNS



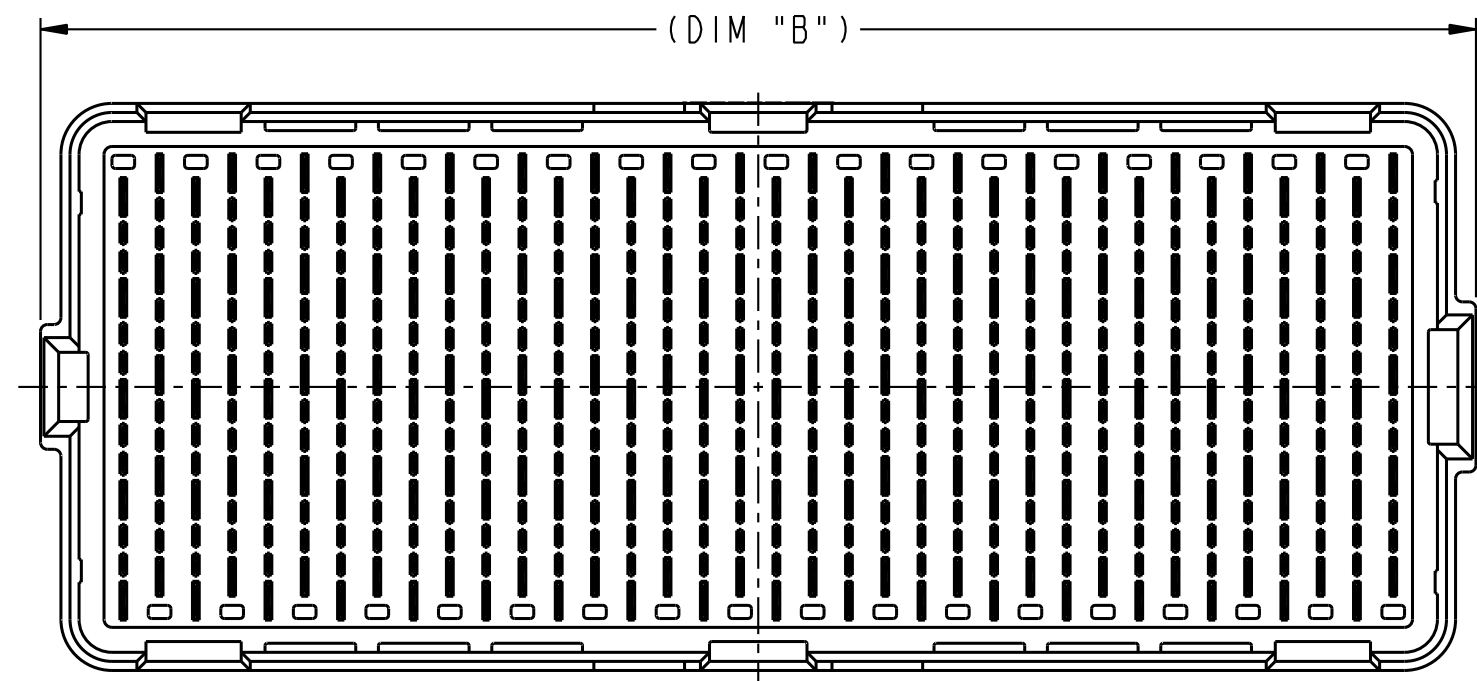
**10152408**  
4PR 24 COLUMNS



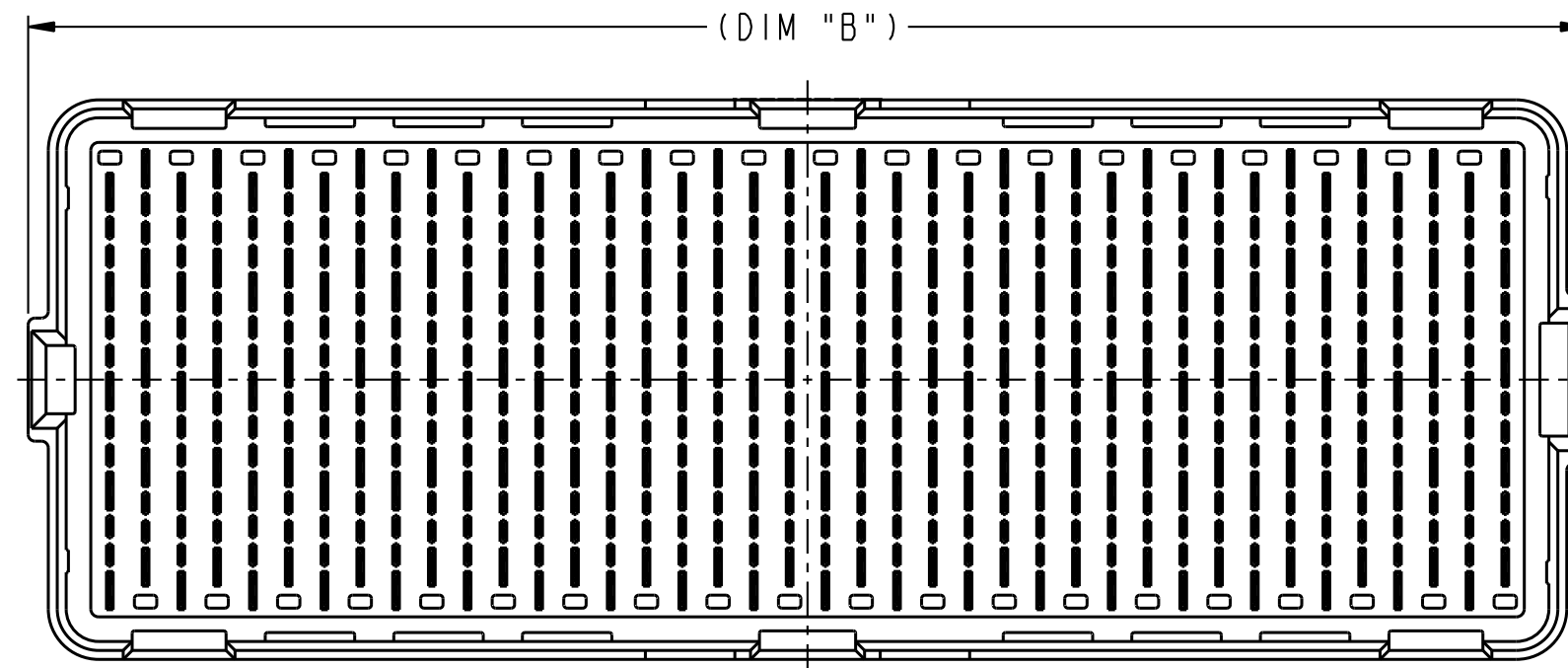
**10154142**  
4PR 28 COLUMNS



**10154144**  
4PR 32 COLUMNS



**10152412**  
4PR 36 COLUMNS



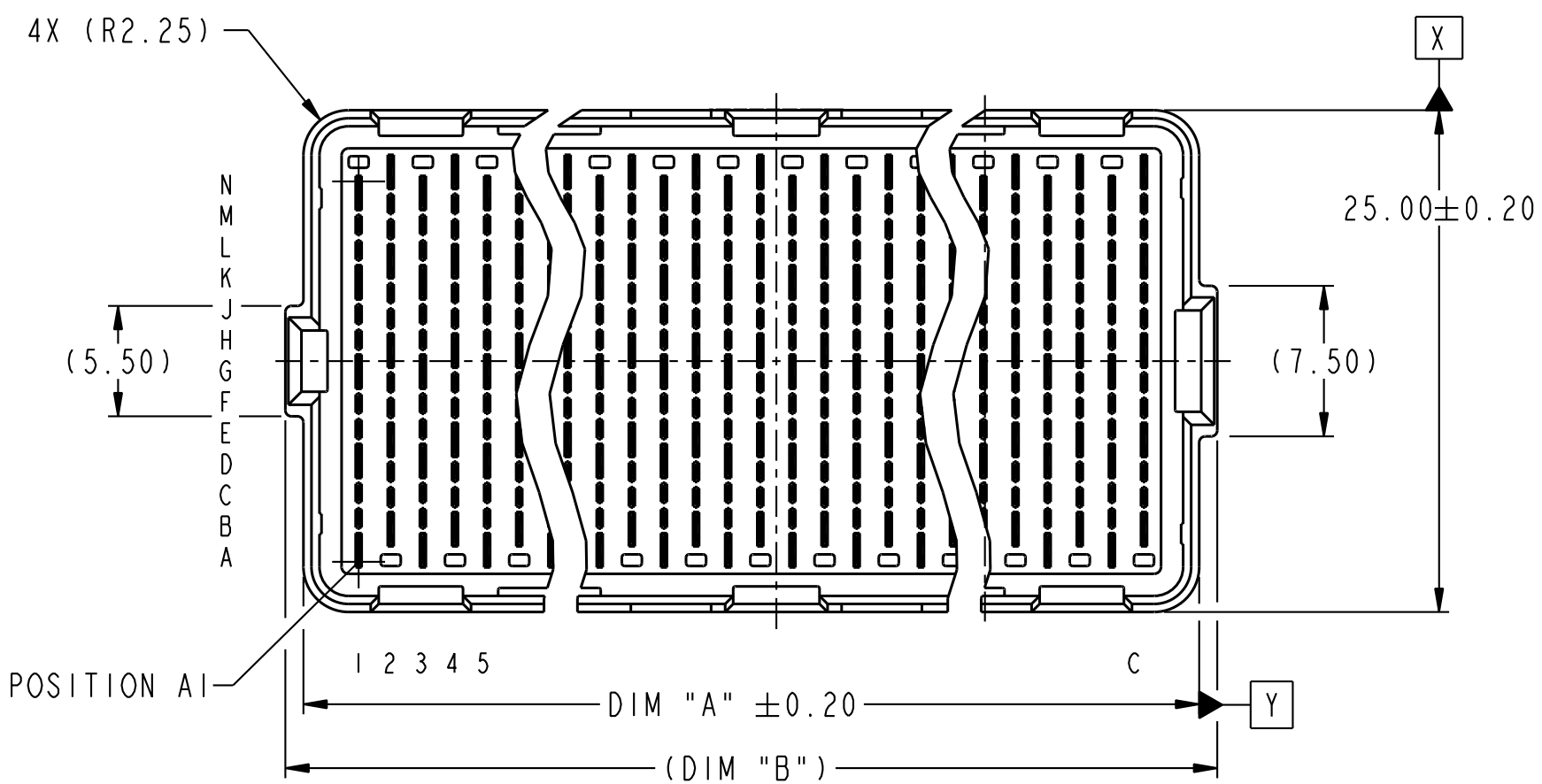
**10152414**  
4PR 40 COLUMNS

**PRELIMINARY**

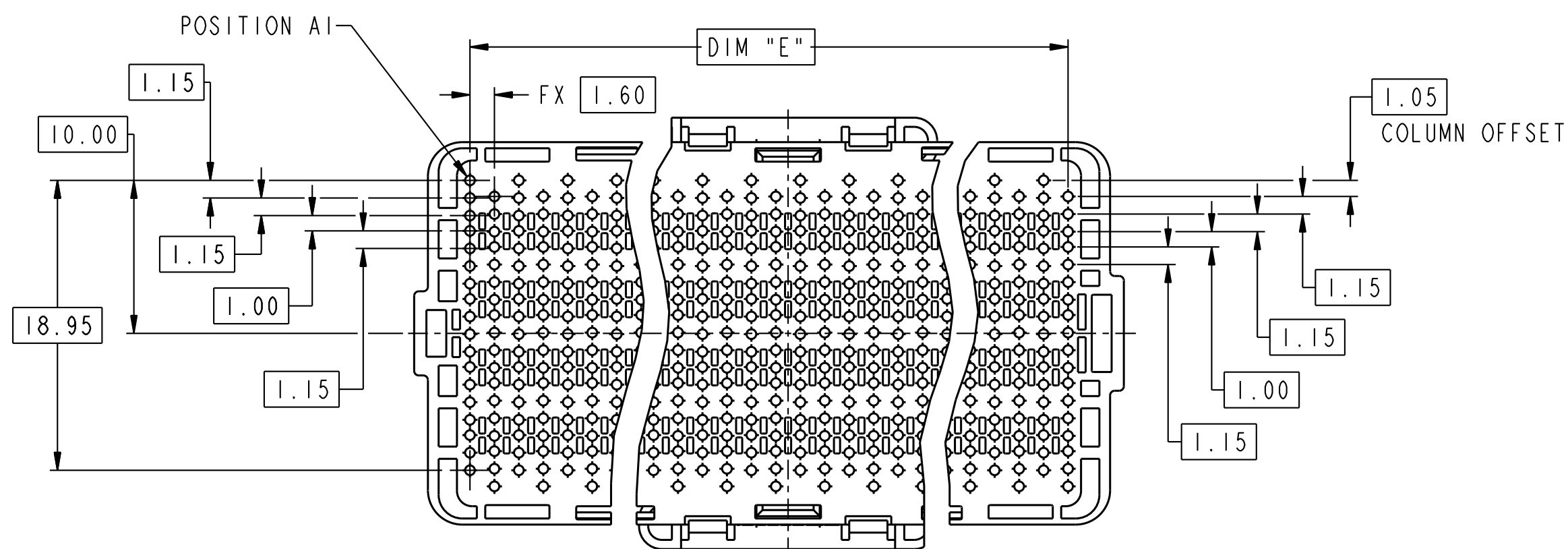
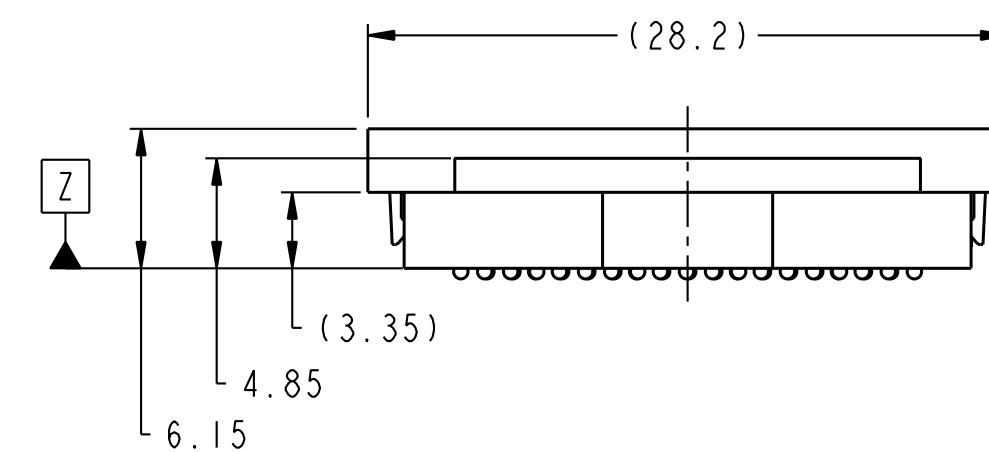
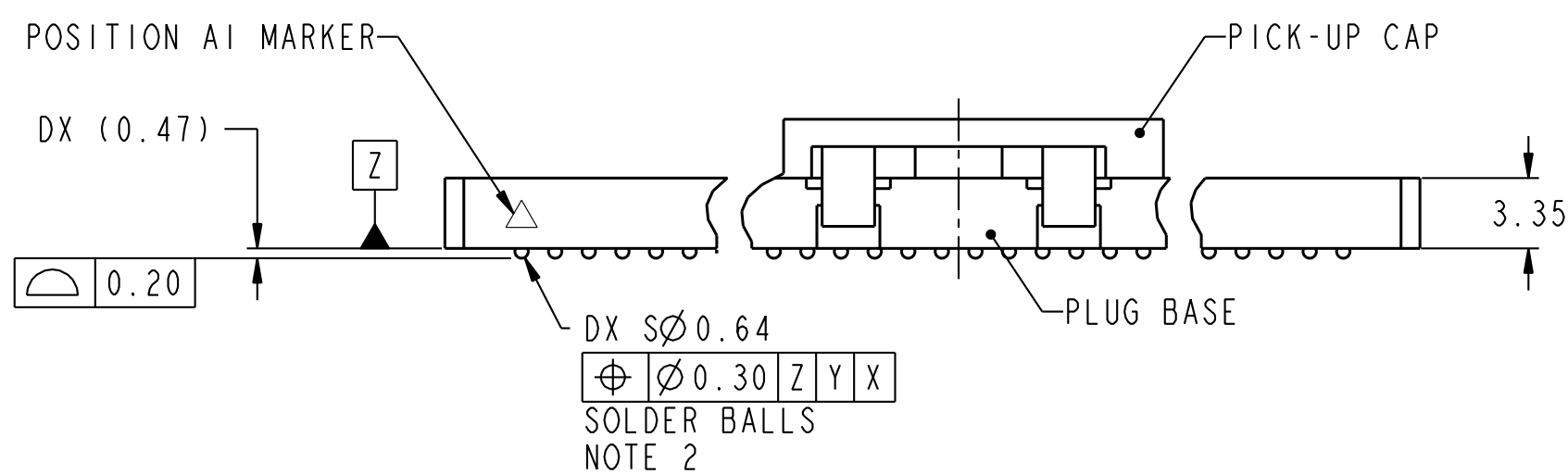
spec ref	-			dr	HCL-MD	2019-08-12	projection	mm	size	A2	scale	3:1
tolerance std	ANSI Y14.5 ANSI Y14.5			eng	R. JOHNSON	2019-08-12			ecn no			
TOLERANCES UNLESS OTHERWISE SPECIFIED			chr			product family			M-Series 56	rel level	In Work	
surface	linear	0.X	±0.3		0mm PLUG ASSEMBLY					10154178	rev	I
		0.XX	±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					

Amphenol  
FCi

© 2016 AFci

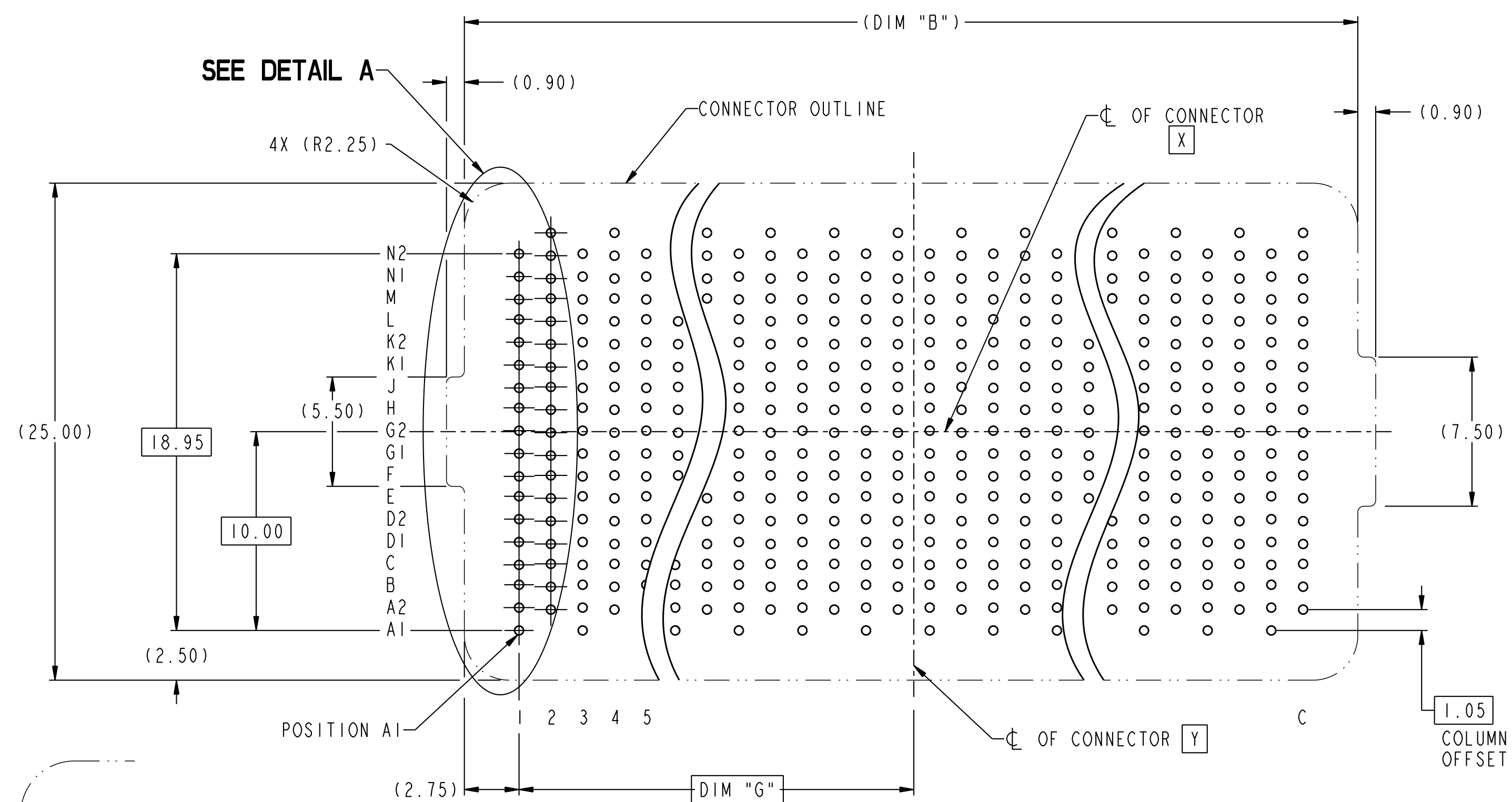


VACUUM PICK-UP CAP NOT SHOWN FOR CLARITY

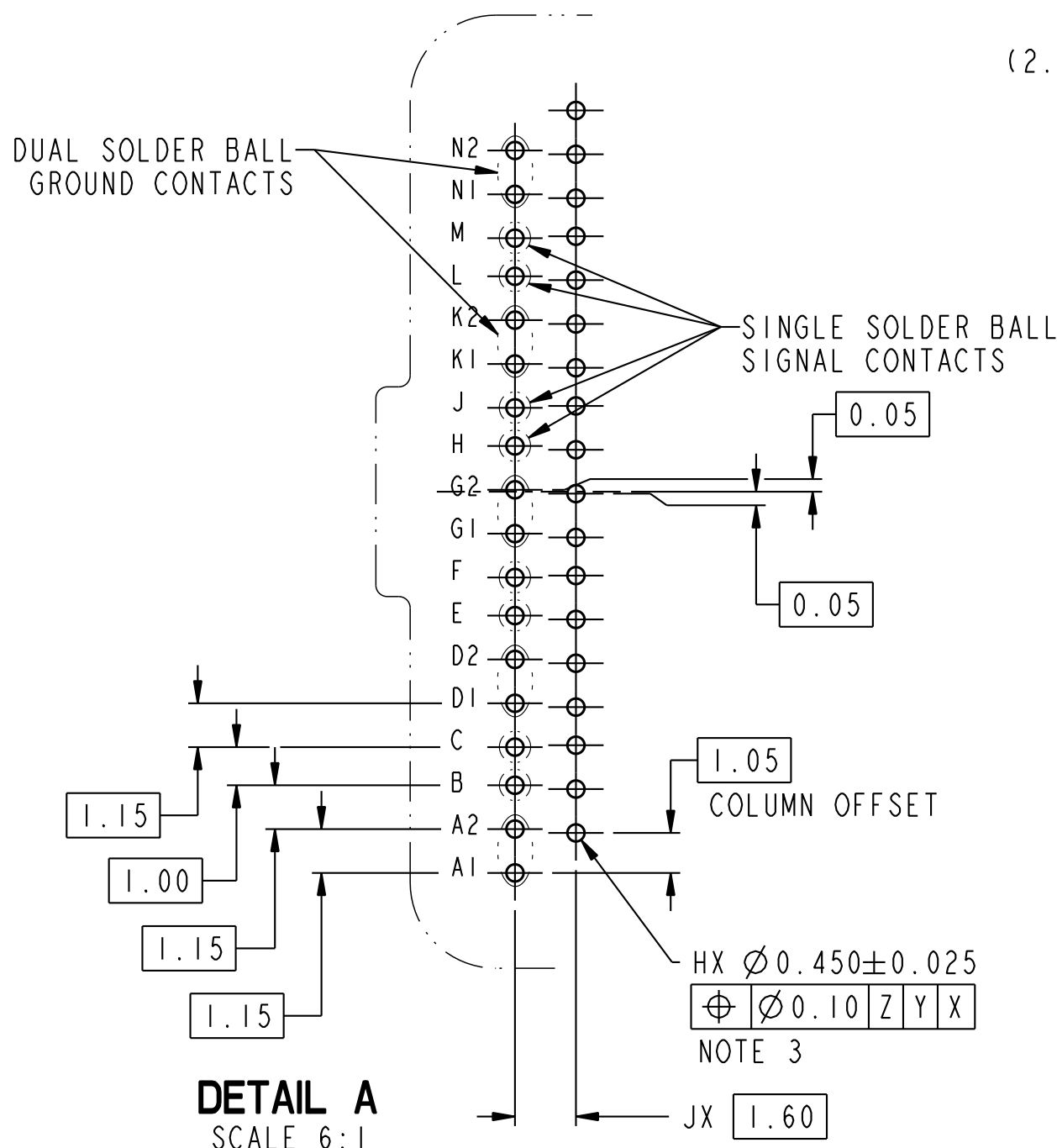


**PRELIMINARY**

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	<b>Amphenol FCI</b>	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

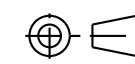
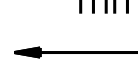
**PRELIMINARY**

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								
surface	linear	0.X	±0.3	Amphenol FCI		0mm PLUG ASSEMBLY		cat. no.	10154178	I
ANSI Y14.5	angular	0.XX	±0.10	4 PR, 92Ω, FAMILY DRAWING		Product - Customer Drw		sheet 3 of 5		
		0.XXX	±0.05							
		0°	±2°							

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" WIDTH OF CONNECTOR WALL	DIM "B" OVERALL WIDTH OF CONNECTOR
A	10152597-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	80	160	100	35.90	37.70	20	360	30.40	19	15.20	360	19
	10152597-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												
	10152408-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	96	192	120	42.30	44.10	24	432	36.80	23	18.40	432	23
	10152408-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												
	10154142-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	112	224	140	48.70	50.50	28	504	43.20	27	21.60	504	27
	10154142-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												
	10154144-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	128	256	160	55.10	56.90	32	576	49.60	31	24.80	576	31
	10154144-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												
	10152412-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	144	288	180	61.50	63.30	36	648	56.00	35	28.00	648	35
	10152412-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												
B	10152414-192S	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnPb	-	160	320	200	67.90	69.70	40	720	62.40	39	31.20	720	39
	10152414-192SLF	YES	30 $\mu$ in (0.76 $\mu$ m) GXT	SnAgCu LEAD FREE	8												

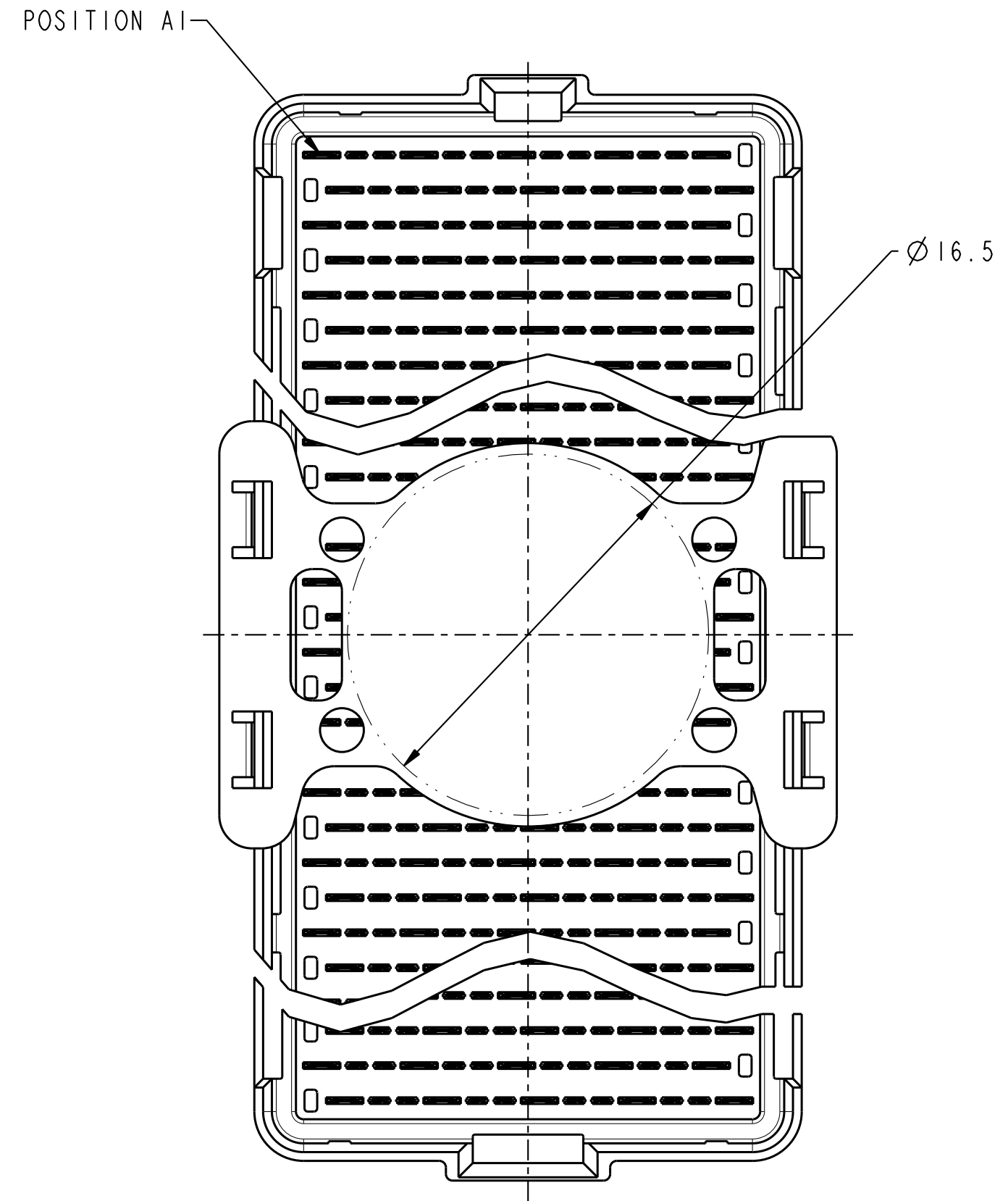
Amphenol FCI

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	In Work	
TOLERANCES UNLESS OTHERWISE SPECIFIED			chr									
surface	linear	0.X ±0.3 0.XX ±0.10 0.XXX ±0.05	angular	0° ±2°	Amphenol FCI	0mm PLUG ASSEMBLY						10154178
ANSI Y14.5	angular	0° ±2°	cat. no.	-	Product - Customer Drw	sheet 4 of 5						

**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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	R. JOHNSON	2019-08-12			ecn no		rel level		
ANSI Y14.5				chr		product family			M-Series 56		In Work		
ANSI Y14.5				appr		cat. no.			-		Product - Customer Drw		
surface	linear	0.X	±0.3	<b>Amphenol FCI</b>				0mm PLUG ASSEMBLY 4 PR, 92Ω, FAMILY DRAWING		10154178		rev 1	
		0.XX	±0.10										
		0.XXX	±0.05										
ANSI Y14.5	angular	0°	±2°	cat. no.		-		Product - Customer Drw		sheet 5 of 5			