

PRODUCT NUMBER

SEE TABLE-SHEET

A

This technical drawing illustrates the physical dimensions of a component labeled POS_A1. The drawing shows a rectangular outline with internal features: a central grid of 20 columns by 12 rows of circular pads, and two vertical columns of rectangular pads on the left and right sides. Dimension lines indicate the following measurements:

- Width: The total width is indicated by dimension line X at the top, spanning from the center of the left vertical column to the center of the right vertical column, with a value of 55.00 ± 0.20 ST.
- Height: The total height is indicated by dimension line Y on the right side, spanning from the bottom of the bottom-most row of pads to the top of the top-most row, with a value of 17.34 ± 0.20 ST.
- Left Vertical Column: The height of the left vertical column is $(11.43) (5.50)$, and the width of the gap between it and the main grid is (1.27) .
- Right Vertical Column: The height of the right vertical column is (7.50) , and the width of the gap between the main grid and it is (1.27) .
- Bottom Row: The width of the bottom-most row of pads is $4X (R2.25)$, with a total length of (56.80) .
- Top Row: The width of the top-most row of pads is $8X (R0.30) MAX$, with a total length of (49.53) .

PROTECTIVE PICK-UP CAP

PLUG BASE

(12.70)

(2.56)

PLUG CONTACT

(0.76)

KNIT LINE PERMISSIBLE
BOTH END

(0.64)

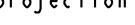
0.254

(0.54)

$\odot 0.762$ SOLDER BALLS

$\oplus \odot 0.30 X Y$

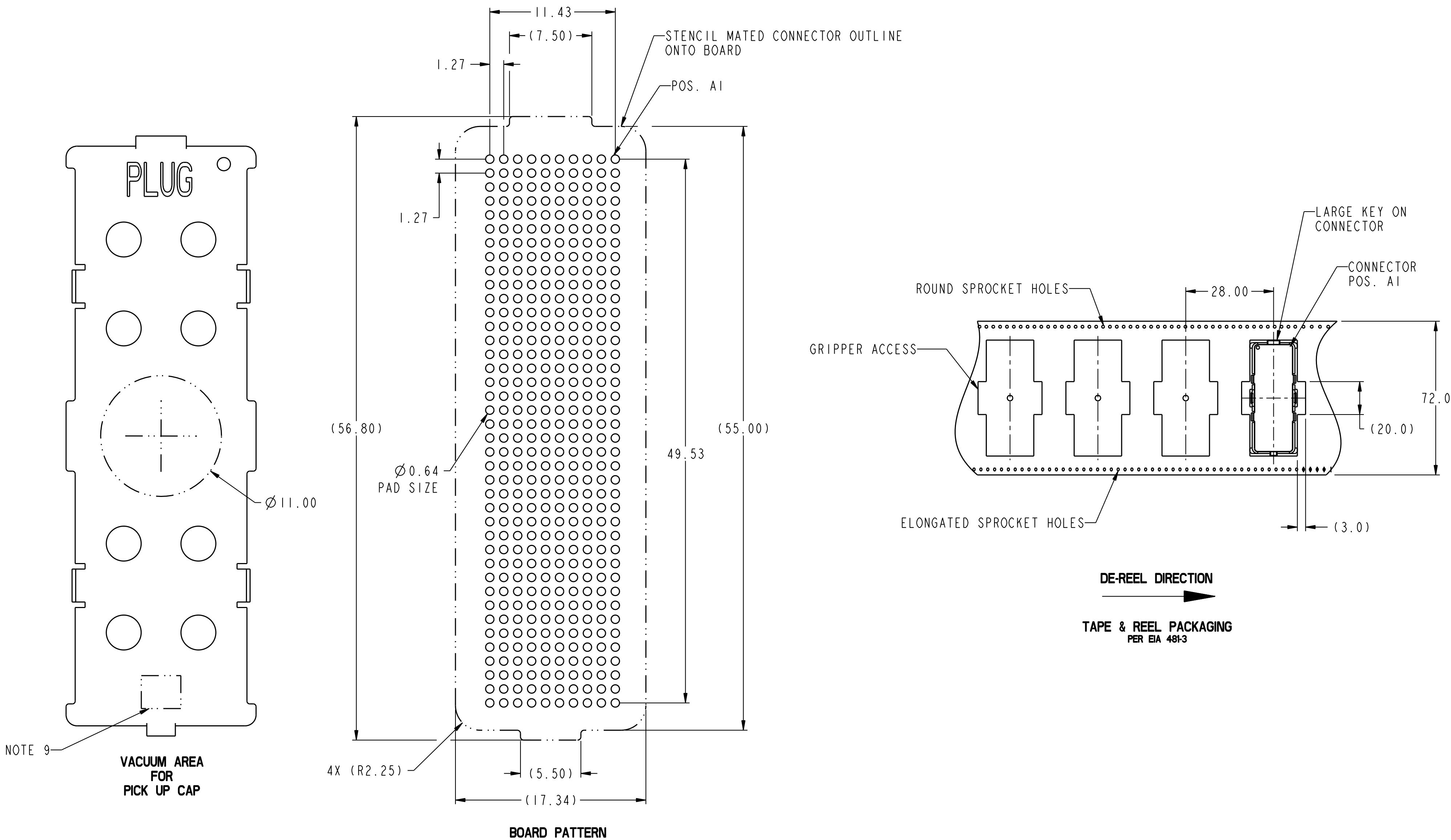
SEE NOTE 2

spec ref	-	dr	Rajendran, Kar	2018/01/31	projection 	MM	size	A2	scale	1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED ASME Y14.5	eng	Robert Brown	2019/02/16			ecn no	ELX-V-32686-1			
		chr	-	-			rel level	Released			
		appr	John Ravert	2019/02/15			product family	MEG-ARRAY			
surface	linear	0.X	±0.3	Amphenol FCI	Title: Omm PLUG ASSEMBLY 10 X 40 = 400 POSITIONS				dwg no	rev	
		0.XX	±0.10						84740	S	
		0.XXX	±0.050								
ASME Y14.5	angular	0°	±2°		cat. no.	Product - Customer Drw				sheet 1 of 4	

PRODUCT NUMBER

SEE TABLE-SHEET 5

**Ampheno
FCi**



spec ref	-	dr	Rajendran, Kar	2018/01/31	projection 	MM	size	A2	scale	3:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED ASME Y14.5	eng	Robert Brown	2019/02/16			ecn no	ELX-V-32686-1				
chr		-	-	-			rel level	Released				
appr		John Ravert	2019/02/15	product family			dwg no	84740		rev S		
surface	linear	0.X	±0.3	Amphenol FCI Omm PLUG ASSEMBLY								
		0.XX	±0.10	10 X 40 = 400 POSITIONS								
		0.XXX	±0.050									
ASME Y14.5	angular	0°	±2°	cat. no.		Product - Customer Drw			sheet 2 of 4			

PRODUCT NUMBER
SEE TABLE-SHEET 5

A

A

B

B

C

C

D

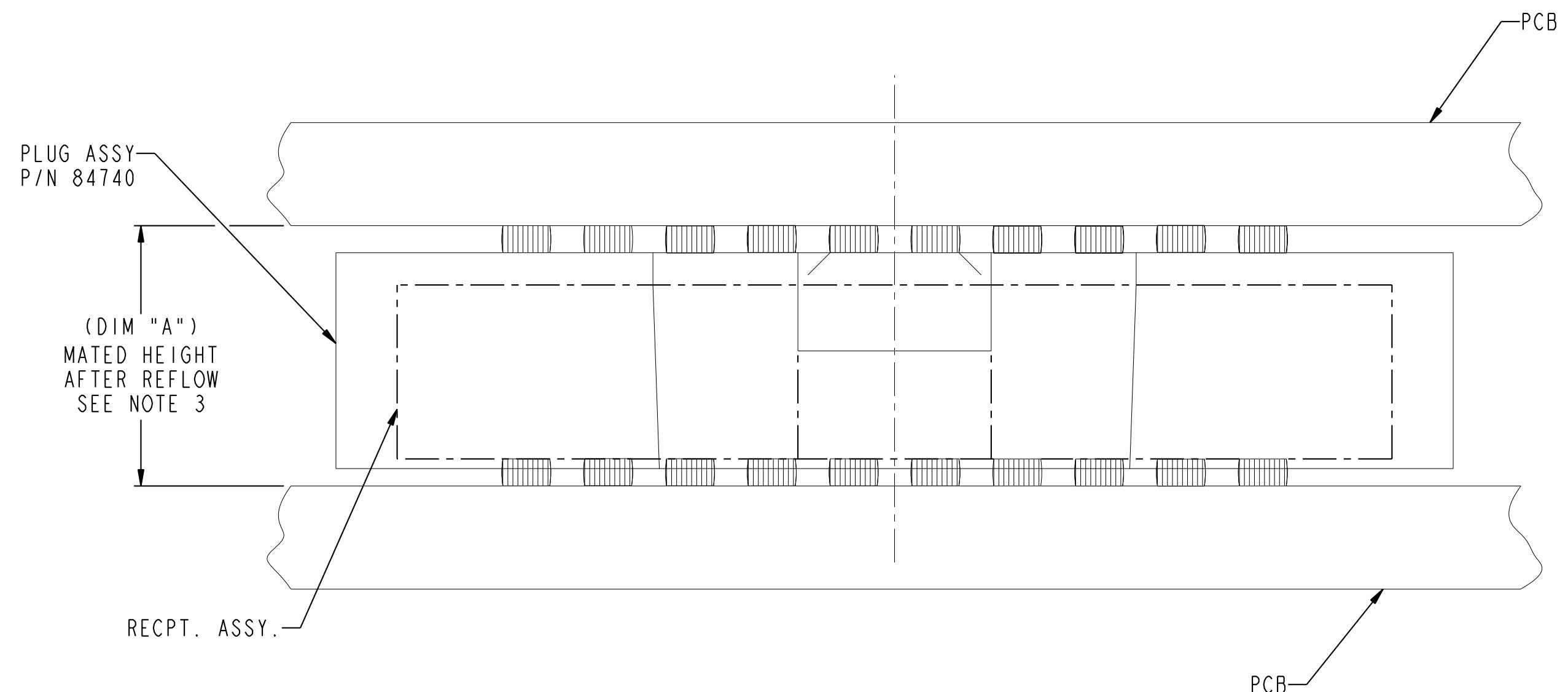
D

E

E

F

F



MATED HEIGHT TABLE	
DIM. A	RECPT. ASSY. P/N
4.0	74221
6.0	74388
8.0	74390

MATED HEIGHT AFTER REFLOW IS BASED ON $\varnothing 0.64\text{mm}$ PAD (METAL-DEFINED)
AND 0.13mm SOLDER PASTE STENCIL THICKNESS. SEE NOTE 3

END VIEW - MATED CONNECTORS

spec ref tolerance std ASME Y14.5 -	TOLERANCES UNLESS OTHERWISE SPECIFIED	dr	Rajendran, Kar	2018/01/31	projection eng chr oppr	MM product family MEG-ARRAY	size A2 scale 1:1 ecn no ELX-V-32686-1
		linear	0.X ± 0.3 0.XX ± 0.10 0.XXX ± 0.050	Amphenol FCi			
surface ASME Y14.5	Angular	0° $\pm 2°$	title Omm PLUG ASSEMBLY 10 X 40 =400 POSITIONS	cat. no.	Product - Customer Drw	rev 84740 S	

I	2	3	4	5	6	7	8
A	PRODUCT NUMBER	PIC-UP CAP	CONTACT PLATING, SEE NOTE 10	SOLDER BALLS	NOTES		
	84740-002	YES	15μ" (0.38μm) Au	SnPb	-		
	84740-002LF	YES	15μ" (0.38μm) Au	SnAgCu LEAD FREE	7		
	84740-092	YES	15μ" (0.38μm) GXT	SnPb	-		
	84740-092LF	YES	15μ" (0.38μm) GXT	SnAgCu LEAD FREE	7		
	84740-102	YES	30μ" (0.76μm) Au	SnPb	-		
	84740-102LF	YES	30μ" (0.76μm) Au	SnAgCu LEAD FREE	7		
	84740-192	YES	30μ" (0.76μm) GXT	SnPb	-		
	84740-192LF	YES	30μ" (0.76μm) GXT	SnAgCu LEAD FREE	7		
	84740-202	YES	Au SPECIAL	SnPb	4		
B	84740-202LF	YES	Au SPECIAL	SnAgCu LEAD FREE	4 AND 7		
	84740-292	YES	GXT SPECIAL	SnPb	4		
	84740-292LF	YES	GXT SPECIAL	SnAgCu LEAD FREE	4 AND 7		
	84740-A02	YES	SPECIAL	SnPb	8		
	84740-A02LF	YES	SPECIAL	SnAgCu LEAD FREE	7 AND 8		

NOTES:

① MATERIAL:
 HOUSING: LCP, COLOR IS WHITE
 PICK-UP CAP: LCP, COLOR IS BLACK
 CONTACT: COPPER ALLOY

PLATING:
 CONTACT: (SEE TABLE AND OTHER NOTES)
 SOLDER BALL: (SEE TABLE), EITHER
 EUTECTIC SnPb OR LEAD FREE OR 95.5Sn/4Ag/0.5Cu

② SOLDER BALLS WILL NOT BE PERFECT SPHERICAL SHAPE
 DUE TO REFLOW ATTACHMENT.

③ MATED HEIGHT EFFECTED BY CUSTOMER'S PCB PAD SIZE,
 PLATING, SOLDER REFLOW PROFILE & SOLDER PASTE.

④ PLATING FOR INDICATED -2XX SERIES PART NOS. IS Au
 OVER Ni WITH SPECIAL CONTACT GEOMETRY TO MEET
 REQUIREMENTS OF TELCORDIA GR-1217-CORE: CENTRAL
 OFFICE ENVIRONMENT (25 LIFE EXPECTANCY).

⑤ -302, -302LF, -402, -402LF, -502, -502LF ARE OBSOLETE
 AND REMOVED FROM THE PRODUCT NUMBER TABLE.

⑥ FOR PROPER APPLICATION FOLLOW AFCI APPLICATION
 SPECIFICATION GS-20-033 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 WITH
 LEADED OR SOME SOLDERING APPLICATIONS.

- ⑦ 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.
- ⑧ 84740-A02, -A02LF ARE CUSTOMER SPECIALS.
- ⑨ CURRENT COMPANY LOGO TO BE VISIBLE IN APPROXIMATE AREA SHOWN.
- 10. FOR PURPOSES OF MAXIMIZING MANUFACTURING UTILIZATION, PLATED TERMINALS WITH HIGHER PLATING THICKNESS THAN THE REQUIRED AMOUNT, MAY BE SUBSTITUTED FOR TERMINALS WITH THE REQUIRED PLATING.
- 11. PLUG TERMINAL MAY OR MAYNOT INCLUDE ANTI-WICKING SLOT FEATURE THAT IS TYPICALLY ASSOCIATED WITH HIGHER PLATING THICKNESS OPTIONS.
- 12. A SYMBOL WILL BE NEXT TO ANY DIMENSION OR NEW VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

spec ref	-	dr	Rajendran, Kar	2018/01/31	projection	MM	size	A2	scale
tolerance std	ASME Y14.5	eng	Robert Brown	2019/02/16					
	-	chr	-	-					
		oppr	John Ravert	2019/02/15	product family	MEG-ARRAY	rel level	Released	rev
surface		linear	0.X ±0.3		Amphenol FCi		Omm PLUG ASSEMBLY 10 X 40 =400 POSITIONS		
ASME Y14.5		angular	0° ±2°		cat. no.		Product - Customer Drw		