		3)rw no. C-471-1025	5-500 сн	rev N
ZONE	REV	SCR NUMBER	DESCRIPTION	BY	DATE	APPROVED
	G	JPRX-7ESPW 4.VER01	ADDED P/N 471-1045-104 AND 471-1045-604	HCL-AP	05/15/08	J.PROULX
	Н	JPRX-7PNHRT.VER01	ADDED P/N 471-3025-101 AND 471-3025-601	HCL-RB	03/09/09	J.PROULX
	J	JPRX-7TBGML.VER01	ADDED P/N 471-2095-101 AND 471-2095-601	HCL-MH	07/02/09	J.PROULX
_	K	CSAS-82ATTZ.VER01	ADDED NEW PART NUMBERS IN TABLES FOR NEW PLATING CODES. ADDED 471-2065-X01 & 471-3095-X00 PART NUMBERS IN TABLE 1	HCL-MH	02/12/2010	C.SAMMIS
	L	JPRX-86EPK6.VER01	ADDED P/N 471-2045-X03	HCL-BK	06/15/2010	C.SAMMIS
	М	CSAS-8XGS99.VER01	ADDED P/N 471-2025-X04 IN TABLE 1	HCL-MP	08/28/2012	C.SAMMIS
SH1.A	4 N	MCHH-9TUTMD.VER01	CHANGED NOTE 4 TO AVOID AMBIGUITY ABOUT TOOLING HOLES	M.CHARETH	02/18/2015	J.PROULX

В

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NOTES;

- 1. ALL DIMENSIONS ARE IN MM.
- 2. MAT'L: HOUSING/WAFERS/VACUUM CAP LCP CONTACTS - HIGH PERFORMANCE COPPER ALLOY, PER MTS-506.
- 3. 0.71 DIA SOLDER SPHERES WILL NOT BE PERFECTLY PHERICAL AFTER REFLOW ATTACHMENT.
- (4) TOOLING HOLES USED FOR INTERNAL PROCESS ALIGNMENT AND NOT REQUIRED FOR SMT PROCESS ALIGNMENT. QUANTITY OF TOOLING HOLES IS OPTIONAL, AT MANUFACTURERS DISCRETION.
- (5) SOLDER BALL PROTRUSION BELOW HOUSING.
- (6) SEE TECHNICAL BULLETIN TB-2082 FOR DETAILED SMT PROCESSING AND PCB FOOT PRINT RECOMMENDATIONS.
- (7) MAXIMUM CO-PLANARITY OF THE BALL FIELD.
- (8) MAXIMUM TRUE POSITION OF ANY SOLDER BALL IN RELATION TO AN IDEAL BEST FIT GRID.
- 9. TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS SHOWN IN "()" OR BASIC DIMENSIONS SHOWN IN "□".

0.0 ±0.25 0.00 ±0.13 0.000 ± -ANGLES ± -UNLESS OTHERWISE SPEC ARE IN MM, DECIMAL MA CUSTOME INTERPRET PER ASME Y14.5M DRAW CODE IDENT 31413

TOLERANCES

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								w ND. C -471-1025-500	
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 СНК 067	21/02 J.MARVIN	TITLE	PL		DULE ASS			Rev N	
APVD 2/6	5/04			NE XI	LEV CONNECTO	ĸ			J
	J.MARVIN	PART N	١0.				REV		
	DIMENSIONS			SEE	TABLE 1		N/A		
 	IS A PERIOD	DRAWI		C-471-	1025-500		re v N		
1er √IN(Pro/		002-PD-SHRD- DRAWING: (-47		1.5 M.1		
	_	SIZE	В	SC ALE	2/1	SHEET 1 0	F 8		
								,	

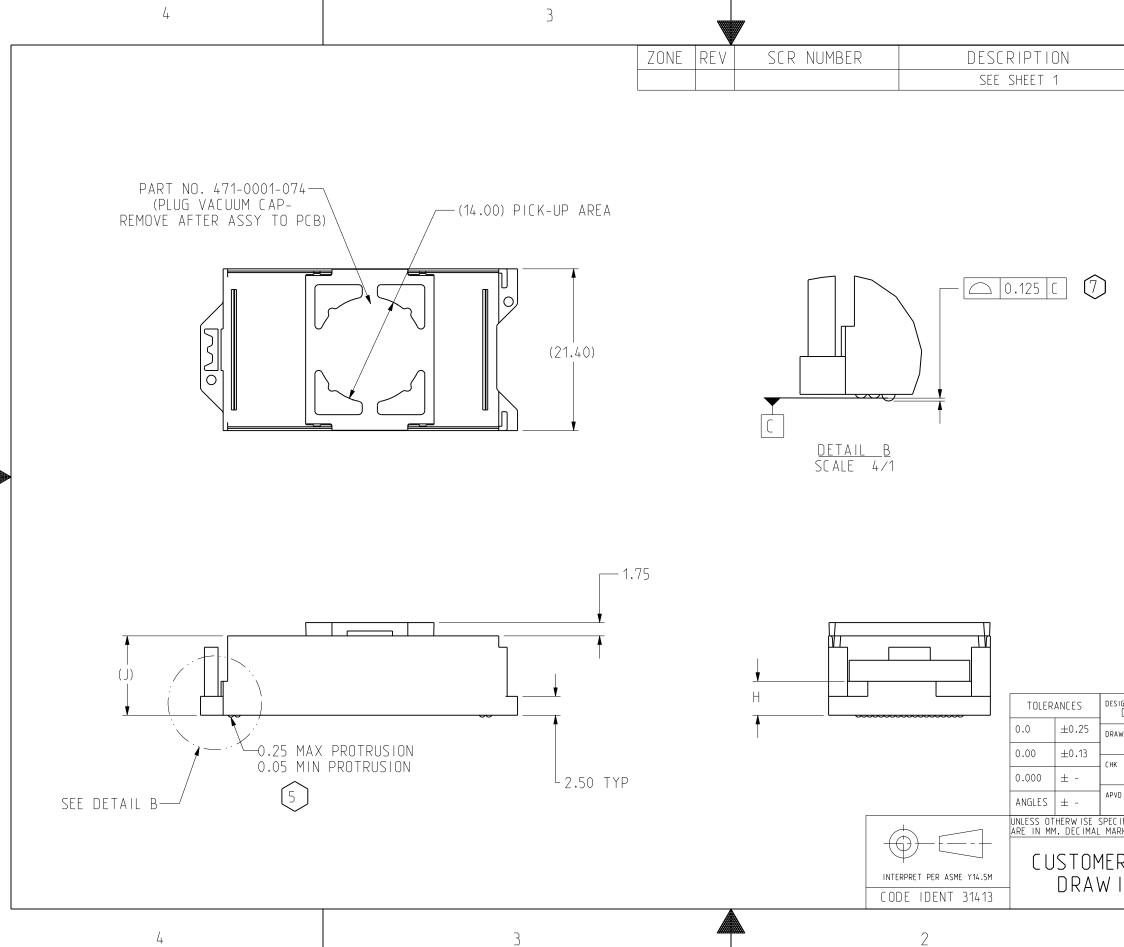
		TABLE 1					
PART NUMBER (SEE TABLE 2)	DESCRIPTION	W AFERS INSTALLED	Н	J	N	Р	S
471-1025-X00	10 POS, 2.5 HIGH, PLUG ASSY	ALL	2.5	8.5	9	15.75	21.82
471-1025-X02	10 POS, 2.5 HIGH, PLUG ASSY	1,3,5,7,9	2.5	8.5	9	15.75	21.82
471-2025-X00	20 POS, 2.5 HIGH, PLUG ASSY	ALL	2.5	8.5	19	33.25	39.32
471-2025-X01	20 POS, 2.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,15,17,19	2.5	8.5	19	33.25	39.32
471-2025-X02	20 POS, 2.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,14,15,16,17,18,19,20	2.5	8.5	19	33.25	39.32
471-2025-X03	20 POS, 2.5 HIGH, PLUG ASSY	1,2,4,5,7,8,10,11,13,14,16,17,19,20	2.5	8.5	19	33.25	39.32
471-2025-X04	20 POS, 2.5 HIGH, PLUG ASSY	1 THRU 16, 18, 20	2.5	8.5	19	33.25	39.32
471-3025-X00	30 POS, 2.5 HIGH, PLUG ASSY	ALL	2.5	8.5	29	50.75	56.82
471-3025-X01	30 POS, 2.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,15,17,19,21,23,25,27,29	2.5	8.5	29	50.75	56.82
471-1045-X00	10 POS. 4.5 HIGH. PLUG ASSY	ALL	4.5	10.5	9	15.75	21.82
471-1045-X01	10 POS. 4.5 HIGH, PLUG ASSY	1,3.5.7.9	4.5	10.5	9	15.75	21.82
471-1045-X02	10 POS, 4.5 HIGH, PLUG ASSY	1,2,3,4,5,6,8,10	4.5	10.5	9	15.75	21.82
471-1045-X03	10 POS. 4.5 HIGH, PLUG ASSY	1.3.5.7.9.10	4.5	10.5	9	15.75	21.82
471-1045-X04	10 POS, 4.5 HIGH, PLUG ASSY	1,2,3,4,6,7,8,9,10	4.5	10.5	9	15.75	21.82
471-2045-X00	20 POS, 4.5 HIGH, PLUG ASSY	ALL	4.5	10.5	19	33.25	39.32
471-2045-X01	20 POS, 4.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,15,17,19	4.5	10.5	19	33.25	39.32
471-2045-X02	20 POS, 4.5 HIGH, PLUG ASSY	1 THRU 16, 18, 20	4.5	10.5	19	33.25	39.32
471-2045-X03	20 POS, 4.5 HIGH, PLUG ASSY	1.2.3.4.5.6.7.8.9.10.11.12.13.14.16.18	4.5	10.5	19	33.25	39.32
471-3045-X00	30 POS, 4.5 HIGH, PLUG ASSY	ALL	4.5	10.5	29	50.75	56.82
471-3045-X01	30 POS, 4.5 HIGH, PLUG ASSY	1 THRU 26, 28, 30	4.5	10.5	29	50.75	56.82
471-1065-X00	10 POS. 6.5 HIGH, PLUG ASSY	ALL	6.5	12.5	9	15.75	21.82
471-1065-X01	10 POS. 6.5 HIGH, PLUG ASSY	1,3,5,7,9	6.5	12.5	9	15.75	21.82
471-2065-X00	20 POS, 6.5 HIGH, PLUG ASSY	ALL	6.5	12.5	19	33.25	39.32
471-2065-X01	20 POS, 6.5 HIGH, PLUG ASSY	1 THRU 16,18,20	6.5	12.5	19	33.25	39.32
471-2065-X02	20 POS, 6.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,14,15,16,17,18,19,20	6.5	12.5	19	33.25	39.32
471-3065-X00	30 POS, 6.5 HIGH, PLUG ASSY	ALL	6.5	12.5	29	50.75	56.82
471-3065-X01	30 POS, 6.5 HIGH, PLUG ASSY	1,3,5,7,9,11,13,15,17,19,21,23,25,27,29	6.5	12.5	29	50.75	56.82
471-5065-X00	25 POS, 6.5 HIGH, PLUG ASSY	ALL	6.5	12.5	24	42.00	48.07
471-2095-X00	20 POS, 9.5 HIGH, PLUG ASSY	ALL	9.5	15.5	19	33.25	39.32
471-2095-X01	20 POS, 9.5 HIGH, PLUG ASSY	1 THROUGH 12,18,19,20	9.5	15.5	19	33.25	39.32
471-3095-X00	30 POS, 9.5 HIGH, PLUG ASSY	ALL	9.5	15.5	29	50.75	56.82
471-5095-X00	25 POS, 9.5 HIGH, PLUG ASSY	ALL	9.5	15.5	24	42.00	48.07
471-5095-X01	25 POS, 9.5 HIGH, PLUG ASSY	1 THROUGH 21, 23, 25	9.5	15.5	24	42.00	48.07

				DF	RW NO.	-1025-5	500	sн 2	rev N			
ZONE	REV	SCR NU	MBER		ESCRIPT		BY			APPR	DVED	
					SEE SHEET	F 1						
			TABLE :									
ART NUMBER	TINZ	SOLE EAD SOLDER			R DESCRIP		I ANC F)	_				
71-YYY5-10Y	W AFEI	RS WITH Ni	SULFAM	ATE UN	IDERPLATE			_				E
71-YYY5-201	W AFE	EAD SOLDER RS WITH NA	NO NI UI	INDERPL	ATE		IANCE),	_				
71-YYY5-601		FREE SOLDEF RS WITH Ni				NCE),						
71-YYY5-701		FREE SOLDEF RS WITH NA				NCE).						
												C -471-1025-500
					MCNAMARA							
		T0LER 0.0 0.00		D. Drawn 2	MCNAMARA	Ā	Ampl Division or vative Way,	Amphe	nol Coi	rporation	3000	\cap
		0.0	±0.25 ±0.13	D. drawn 2 RJ	MCNAMARA 2/10/00	A 200 Inno	Division o vative Way,	Amphe i Nashua, N	nol Col IH 03062 ASSEI	rporation 2 603.879.	3000	C - 4 7 1- 10 25 - 500
		0.0 0.00 0.000 ANGLES	$ \begin{array}{c} \pm 0.25 \\ \pm 0.13 \\ \pm - \\ \pm - \\ \pm - \end{array} $	D. DRAWN 2 RJ CHK 067 APVD 270	MCNAMARA 2/10/00 J MCISAAC J.MARVIN 6/04 J.MARVIN	A 200 Inno	Division o vative Way, PLUG M(NEX	Amphe i Nashua, N DULE LEV CONN	ASSE	rporation 2 603.879.	REV	C - 4 7 1 - 10 2 5 - 5 0 2
		0.0 0.00 0.000 ANGLES UNLESS 0T	±0.25 ±0.13 ± - ± -	D. DRAWN 2 RJ CHK 067 APVD 270 SPEC IF IED	MCNAMARA 2/10/00 J MCISAAC /21/02 J.MARVIN 6/04	A 200 Inno TITLE	Division or vative Way, PLUG M(NEX SEE 0.	Amphon Nashua, N DULE Lev conn TABLE	nol Coi IH 03062 A S S E I IEC T OR 1	rporation 2 603.879.	rev N/A	C - 4 7 1 - 10 2 5 - 5 0 2
	ASME Y14.5	0.0 0.00 0.000 ANGLES UNLESS 0T ARE IN MM	±0.25 ±0.13 ± - ± -	D. DRAWN 2 RJ CHK 06/ APVD 2/(MARKER 1ER	MCNAMARA 2/10/00 J MCISAAC J.MARVIN 6/04 J.MARVIN D DIMENSIONS IS A PERIOD USE	A 200 inno TITLE PART NO. DRAW ING N	Division or vative Way, PLUG M(NEX SEE 0. C - 471- Pro/E type: P	Amphen Nashua, N DDULE LEV CONN TABLE 1025-5 002-PD-5	nol Coi 14 03062 A S S E I IEC T OR 1 3 5 <i>HRD - C U</i>	rporation 2 603.879. MBLY	REV	C - 4 7 1 - 10 2 5 - 5 0 2

				DF	RW NO.	-1025-5	500	sн 2	rev N			
ZONE	REV	SCR NU	MBER		ESCRIPT		BY			APPR	DVED	
					SEE SHEET	F 1						
			TABLE :									
ART NUMBER	TINZ	SOLE EAD SOLDER			R DESCRIP		I ANC F)	_				
71-YYY5-10Y	W AFEI	RS WITH Ni	SULFAM	ATE UN	IDERPLATE			_				E
71-YYY5-201	W AFE	EAD SOLDER RS WITH NA	NO NI UI	INDERPL	ATE		IANCE),	_				
71-YYY5-601		FREE SOLDEF RS WITH Ni				NCE),						
71-YYY5-701		FREE SOLDEF RS WITH NA				NCE).						
												C -471-1025-500
					MCNAMARA							
		T0LER 0.0 0.00		D. Drawn 2	MCNAMARA	Ā	Ampl Division or vative Way,	Amphe	nol Coi	rporation	3000	\cap
		0.0	±0.25 ±0.13	D. drawn 2 RJ	MCNAMARA 2/10/00	A 200 Inno	Division o vative Way,	Amphe i Nashua, N	nol Col IH 03062 ASSEI	rporation 2 603.879.	3000	C - 4 7 1- 10 25 - 500
		0.0 0.00 0.000 ANGLES	$ \begin{array}{c} \pm 0.25 \\ \pm 0.13 \\ \pm - \\ \pm - \\ \pm - \end{array} $	D. DRAWN 2 RJ CHK 067 APVD 270	MCNAMARA 2/10/00 J MCISAAC J.MARVIN 6/04 J.MARVIN	A 200 Inno	Division o vative Way, PLUG M(NEX	Amphe i Nashua, N DULE LEV CONN	ASSE	rporation 2 603.879.	REV	C - 4 7 1 - 10 2 5 - 5 0 2
		0.0 0.00 0.000 ANGLES UNLESS 0T	±0.25 ±0.13 ± - ± -	D. DRAWN 2 RJ CHK 067 APVD 270 SPEC IF IED	MCNAMARA 2/10/00 J MCISAAC /21/02 J.MARVIN 6/04	A 200 Inno TITLE	Division or vative Way, PLUG M(NEX SEE 0.	Amphon Nashua, N DULE Lev conn TABLE	nol Coi IH 03062 A S S E I IEC T OR 1	rporation 2 603.879.	rev N/A	C - 4 7 1 - 10 2 5 - 5 0 2
	ASME Y14.5	0.0 0.00 0.000 ANGLES UNLESS 0T ARE IN MM	±0.25 ±0.13 ± - ± -	D. DRAWN 2 RJ CHK 06/ APVD 2/(MARKER 1ER	MCNAMARA 2/10/00 J MCISAAC J.MARVIN 6/04 J.MARVIN D DIMENSIONS IS A PERIOD USE	A 200 inno TITLE PART NO. DRAW ING N	Division or vative Way, PLUG M(NEX SEE 0. C - 471- Pro/E type: P	Amphen Nashua, N DULE LEV CONN TABLE 1025-5 002-PD-5	nol Coi 14 03062 A S S E I IEC T OR 1 3 5 <i>HRD - C U</i>	rporation 2 603.879. MBLY	REV	C - 4 7 1 - 10 2 5 - 5 0 2

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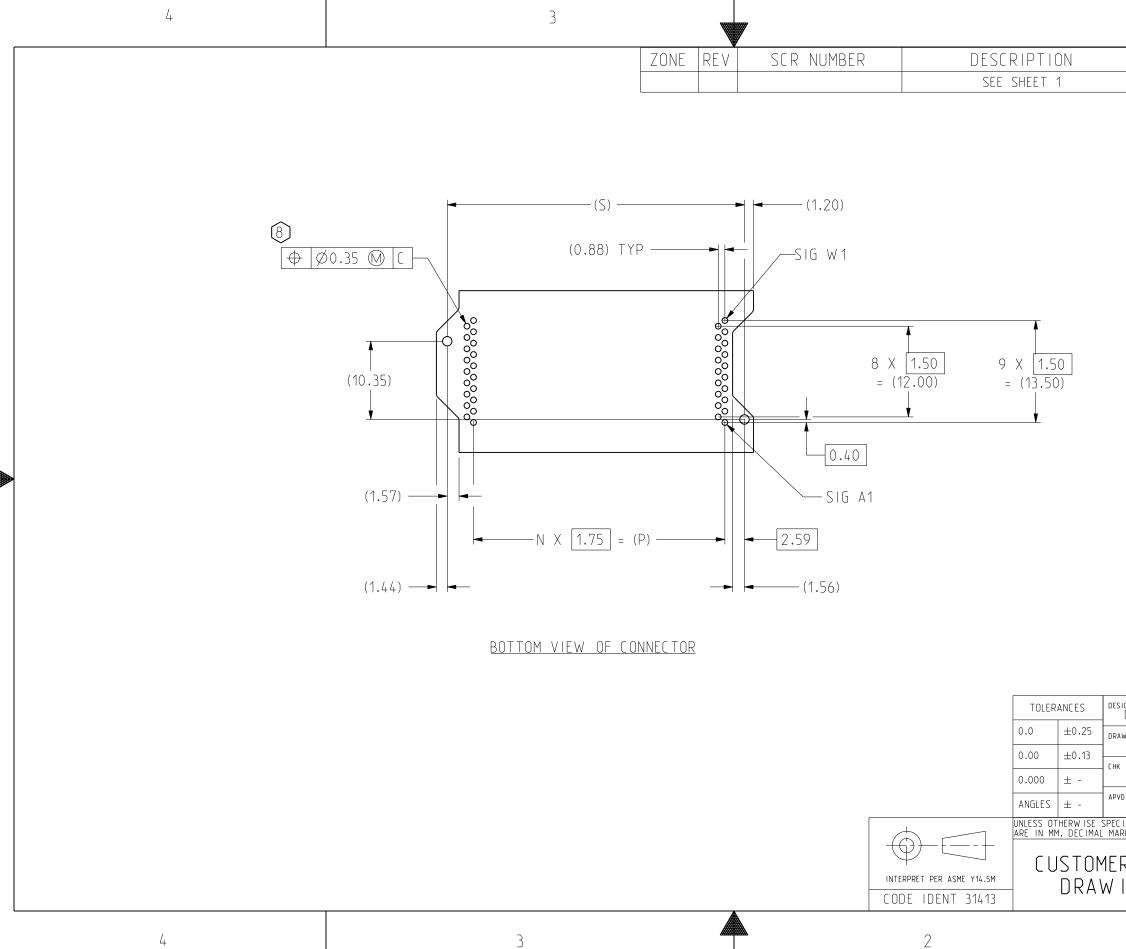
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< (06/21/02 J.MARVIN	TITLE			DULE A				REV N
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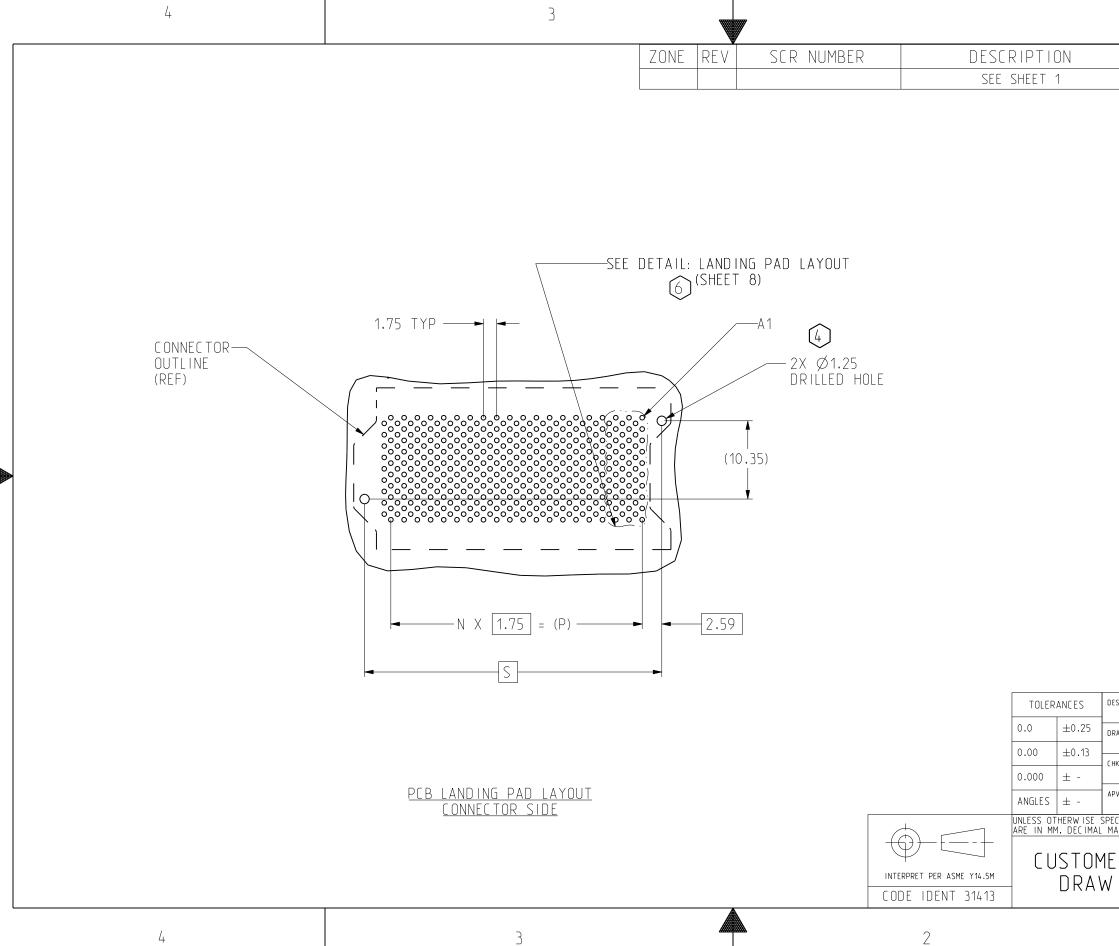


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HK 06/21/02 J.MARVIN	TITLE	Ative Way, Na				3000	rev N
PVD 2/6/04 J.MARVIN	PART NO.	PLUG MOE Nexle	V CONNE			DEV	
ECIFIED DIMENSIONS MARKER IS A PERIOD	DRAW ING NO	SEE T.	ABLE 1			rev N/A rev	
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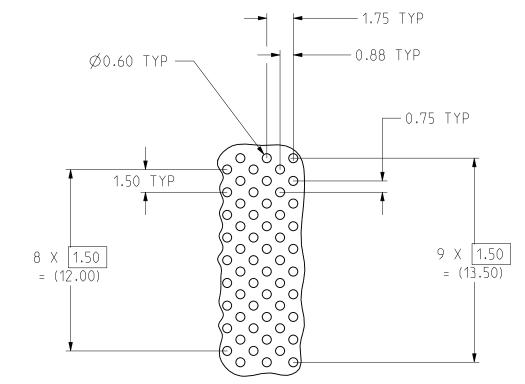


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sigi D	. MCNAMARA		Α	mpł	nenc) T	CS		
AWI	N 2/10/00 RJ MEISAAC	200	A Di	vision o	f Amphen Nashua, NH	ol Corp	oration	3000	2 H
К	06/21/02 J.MARVIN	TITLE)DULE A				REV N
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L ₊	3		\checkmark	7		
	-	ZONE	REV	SCR NUMBER	DESCRIPTION	
					SEE SHEET 1	



DETAIL: LANDING PAD LAYOUT NOTE: SEE TECHNICAL BULLETIN TB-2082 FOR LANDING PAD SHAPE, MASKING, ROUTING AND OTHER DETAILS SCALE 4/1

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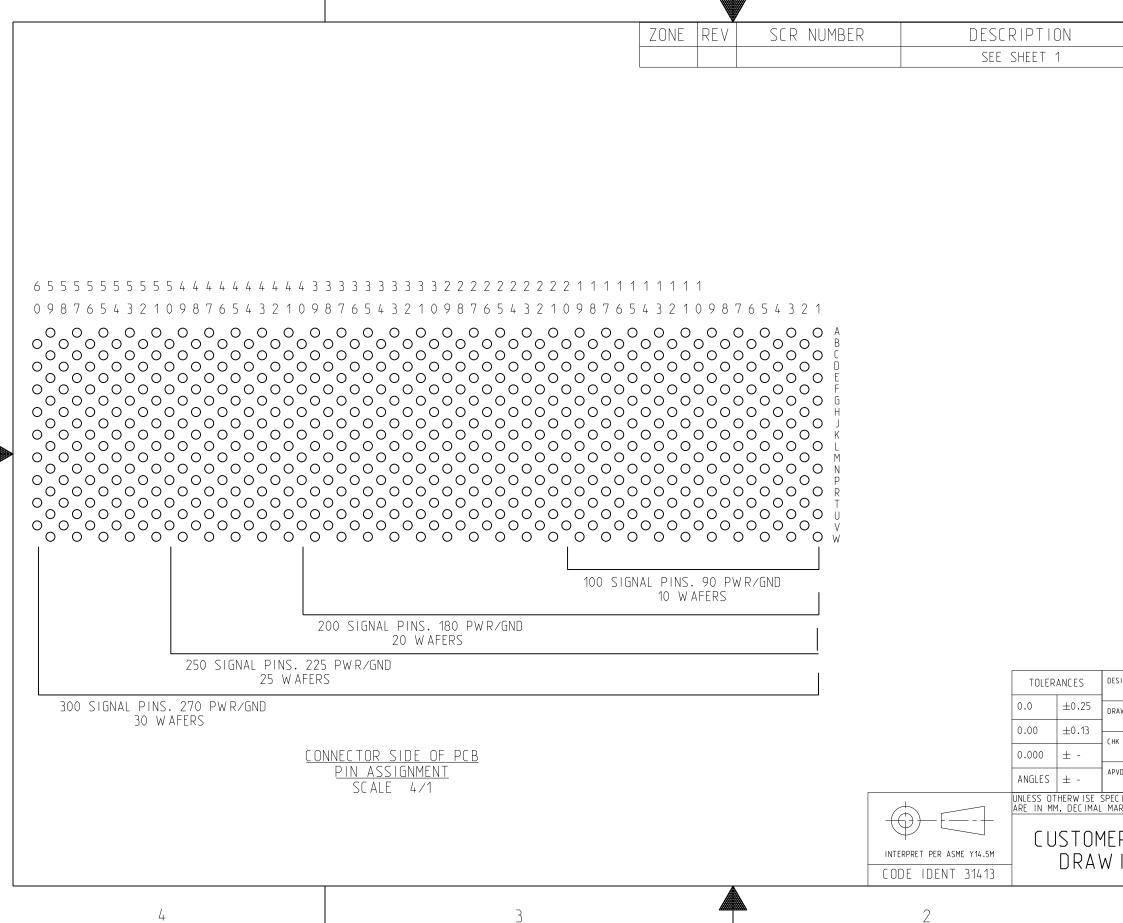
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INTERPRET PER ASME Y14.5M

CODE IDENT 31413

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UNLESS OTHERWISE SPEC ARE IN MM. DECIMAL MA		DRAW ING 1	١0.				REV	
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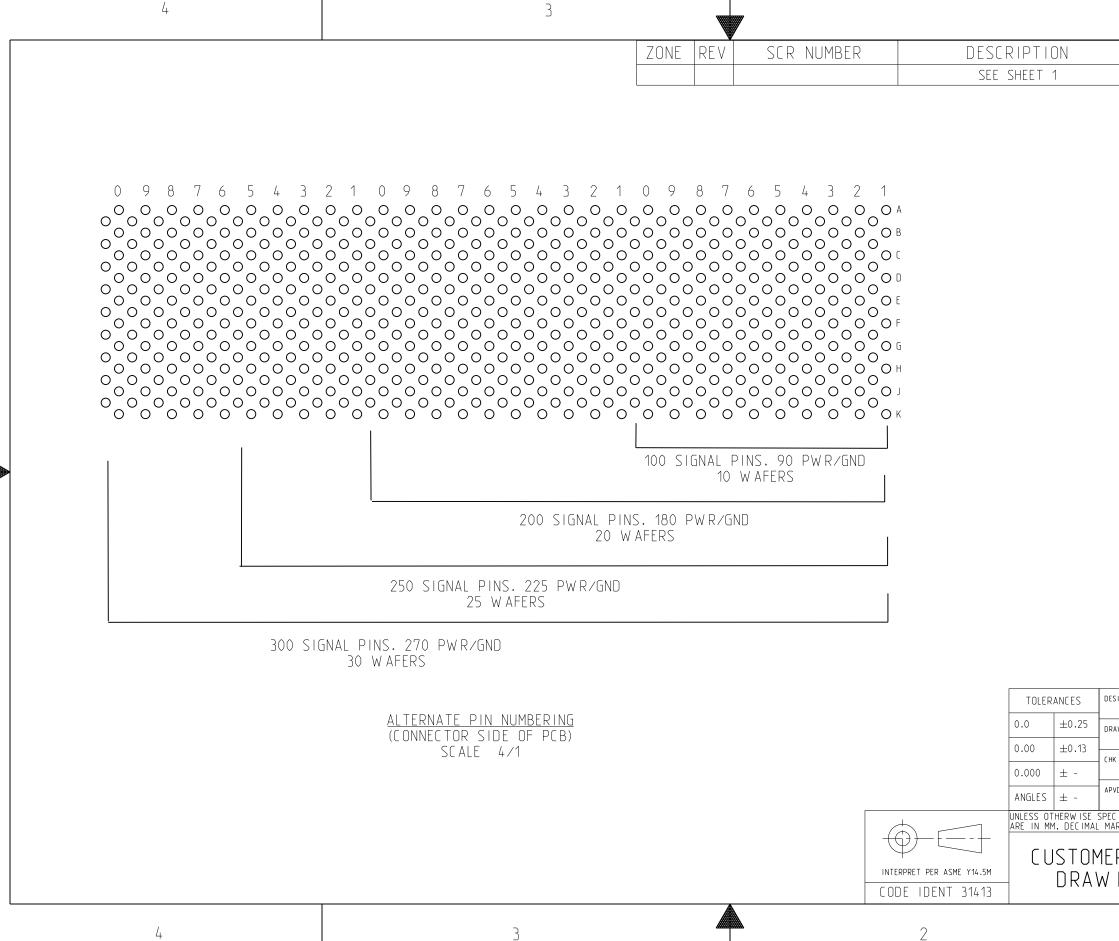


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). MCNAMARA			ision of	Amphen	ol Corp			LH SH
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K). MCNAMARA RJ MCISAAC 06/21/02 J.MARVIN		novativ	ision of ve Way, N		101 Corp 103062	603.879.3	3000	SH REV 7 N
K VD). MCNAMARA N RJ MCISAAC 06/21/02 J.MARVIN 2/6/04 J.MARVIN	200 Ir	PLU	ision of ve Way, N JG MO NEXL	lashua, NI DULE A EV CONNE	OI Corp H 03062 ASSEM	603.879.3	3000 REV N∠A	
). MCNAMARA N 2/10/00 RJ MCISAAC 06/21/02 J.MARVIN 2/6/04 J.MARVIN ELD DIMENSIONS ER IS A PERIOD	200 ir Title	PLU	ision of Way, N JG MO NEXL	Iashua, NI DULE A EV CONNE ABLE 1	ASSEM	603.879.3	rev N∕A rev	
). MCNAMARA N 2/10/00 RJ MCISAAC 06/21/02 J.MARVIN 2/6/04 J.MARVIN TIED DIMENSIONS	200 Ir TITLE PART NO	PLU 5 NO. C	ision of re Way, N JG MO NEXL SEE T - 471 : type: P10	lashua, NI DULE A EV CONNE	1 03062 1 03062 1 SSEM 1 SSEM 1 CTOR 1 O 1 O 1 MRD - CU-	603.879. ВL Ү	rev N/A	



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RAWI	N 2/10/00 RJ MCISAAC		A Div	vision of	Amphen Iashua, NH	ol Corp	oration	3000	8 нs
нк	06/21/02 J.MARVIN	TITLE			DULE A				REV N
PVD	276704 J.MARVIN	PART NO		NEXL	EV CONNE	CTOR		REV	
	IED DIMENSIONS ER IS A PERIOD			SEE T	ABLE 1			N/A	
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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol: 471-3065-100