

PRODUCT NUMBER

SEE TABLE

1 | 2

3 |

4

 $\square$.025 $\pm$.001
 $\square$.64 $\pm$.03

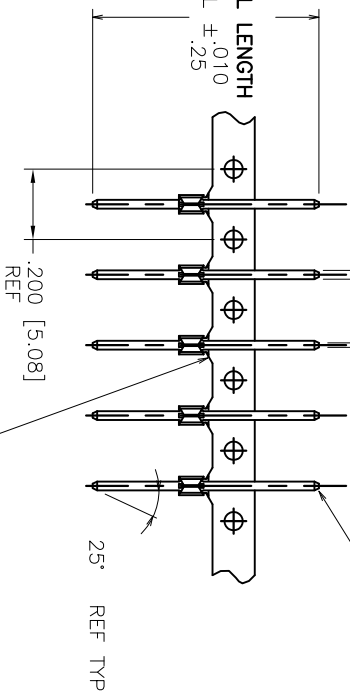
 $\square$ F -

 $\square$.005/.13

 ϕ .013 MAX TYP
.33 NOTE 8

 ϕ .003/.08 (M) (F) (S)

OVERALL LENGTH

DIM L $\pm$.010
.25

CONTACT AREA

DIM A $\pm$.010
.25

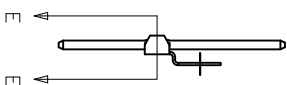
DIM H REF

.070 $\pm$.010
1.78 $\pm$.25

TERMINATION AREA

DIM B
NOTE 8&12

SECTION THRU PC BOARD

TWO SIDES OF
LEADIN NOT
PLATED TYP
BOTH ENDS

NOTE 6

Item: AsmMxLc

1 |

2 |

3 |

4

mat'l. code	SEE NOTE 1	surface	tolerance	projection	product family
litr	ecm no.	dfr	date	ASPE Y4.5	ASPE Y4.5
BC	V08-0353	HTB	2008-08-14	angles	XXX-07/X-3
BD	V08-0496	HTB	2008-11-12	angles	XXX-005/XX-13
BE	V10-0386	HTB	2010-10-20	or $\pm$ 2"	XXXX-0020/XXX-051
-	-	-	-	dfr	M. CORNMANN
AY	V01279	LSS	2000-05-25	PLQJ	K.D. PATEL
BA	V05-0399	HTB	2005-04-28	CLT	E. IORFIDO
BB	V06-0684	HTB	2006-07-21	3DD	E. IORFIDO
sheet	revision	BE	BE	BE	BE
Index	sheet	1	2	3	4


 Dwg no
 75401

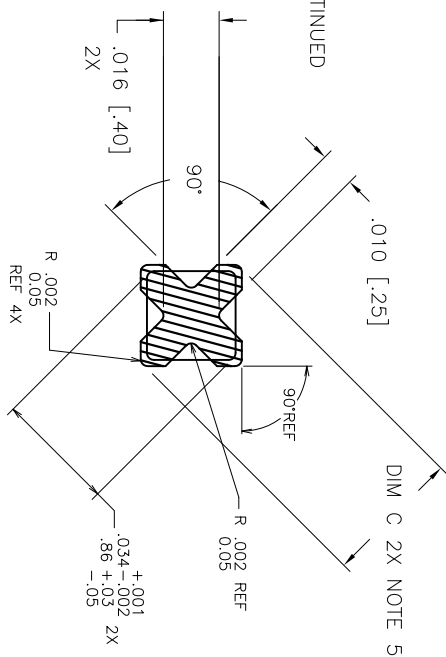
 sheet 1 of 5
 size A4

CUSTOMER Drawing

PRODUCT NUMBER NOTE 14	PLATING	UNDERPLATING
75401-YYY	30μ" [0.76μ] MIN Au	50μ" [1.27μ] MIN Ni
75401-YYYLF		
75403-YYY	50μ" [1.27μ] MIN Au	50μ" [1.27μ] MIN Ni
75403-YYYLF		
75404-YYY	120μ" [3.05μ] MIN 93/7 SnPb	50μ" [1.27μ] MIN Ni
75404-YYYLF	100μ" [2.54μ] MIN Sn (NOTE 15)	50μ" [1.27μ] MIN Ni
75405-YYY	30μ" [0.76μ] MIN GXT™	50μ" [1.27μ] MIN Ni
75405-YYYLF		
75406-YYY	15μ" [0.38μ] MIN GXT™	50μ" [1.27μ] MIN Ni
75406-YYYLF		
75409-YYY	15μ" [0.38μ] MIN Au	50μ" [1.27μ] MIN Ni
75409-YYYLF		

NOTES:

- PIN MATERIAL: PHOS-BRONZE 3/4 HARD ASTM B-159-66.
- BURNISH MARKS ON PIN PERMITTED. BURR .003 [0.08] MAX TYP BULGE .0005 [0.013] MAX TYP.
- SEE PRODUCT SPECIFICATION BUS-12-064 FOR P.C. BOARD HOLE DIAMETER AND P.C. BOARD HOLE PLATING INFORMATION.
- FOR MANUFACTURING PURPOSES ONLY.
- THE .039+.001,-.002 [0.99+.03,-.05] FEATURE SHALL BE CONCENTRIC TO THE WIRE DIAGONAL WITHIN .004 [0.10] TIR.
- .002 [0.05] R MAX TYP 4 PLACES ON WIRE WRAP PORTION OF PIN.
- USE FIRST TWO DIGITS OF "H" DIMENSION FOR DASH NUMBER OF PUNCH FROM MACHINE EPL.
EXAMPLE:
75402-001 "H".062 [1.57]. BD.=235
PUNCH P/N FROM EPL
BP161A-XXXXXX-023
BP151-YYYYYY-023
BP171-ZZZZZZ-023
- IF "B" DIM. IS .235 [5.96] OR LESS, THE MAX. FLAT MAY BE .016 [0.41].
- TOLERANCE: +.001 [0.03] ,-.002 [0.05].
- TOLERANCE: ±.001 [0.03].
- NOT RECOMMENDED FOR BP 161 STYLE MACHINES.
- IF DIMENSION B IS LESS THAN .030 [0.76], THE MAX FLAT MAY BE .016 [0.41] REF WITH .010 [0.25] LONG LEAD-IN ANGLES.



SCALE 10/1
WITHOUT FERRULE

- CENTER LINE OF TERMINAL MUST BE IN A TRUE POSITION WITHIN .015 [0.38] DIA. WITH RESPECT TO THE HOLE AXIS AFTER INSERTION IN PC BOARD.
- ADD AN LF SUFFIX TO PART NUMBERS FOR PRODUCT THAT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS.

mat'l. code	SEE NOTE 1	surface	tolerance	projection	product family
litr	ecn no	date	ASPE Y4.5	ASPE Y4.5	PIN PRODUCTS
BE			tolerances unless otherwise specified		
			angles		
			0° ±2°		
			XXX-005/XXX-B		
			XXX-0020/XXX-051		
			dr	M. CORNMAN	1990-02-22
			engr	K.D. PATEL	1990-02-22
			cltr	E. LOREDO	1992-12-21
			apdd	E. LOREDO	1992-12-21
sheet	revision				
index	sheet				



BERG PIN® 200 [5.08]cc
.039" [0.99] DIA. STAR

75401

A4

Sheet 2 of 5
CUSTOMER Drawing

PRODUCT NUMBER	CONTACT AREA	TERMINATION AREA	DIM C		DIM H FOR .062 BOARD	DIM H FOR .093 BOARD	DIM H FOR .125 BOARD	OVERALL LENGTH	CUSTOMER RESTRICTED
NOTE 14	DIM A	DIM B			1.57	2.36	3.18	DIM L	
7540X-036	.510/12.95	.381/9.68	.039/.99	NOTE 9	.515/13.08	.500/12.70	.485/12.32	.961/24.41	NO
7540X-037	.325/8.26	.101/2.57	.039/.99	NOTE 9	.330/8.38	.315/8.00	.300/7.62	.496/12.60	NO
7540X-038	.595/15.11	.330/8.38	.039/.99	NOTE 9	.600/15.24	.585/14.86	.570/14.48	.995/25.27	NO
7540X-039	.755/19.18	.066/1.65	.039/.99	NOTE 9	.760/19.30	.745/18.92	.730/18.54	.890/22.61	NO
7540X-040	.315/8.00	.399/10.03	.039/.99	NOTE 9	.320/8.13	.305/7.75	.290/7.37	.780/19.81	NO
7540X-041	.230/5.84	.080/2.03	.039/.99	NOTE 9	.235/5.97	.220/5.59	.205/5.21	.380/9.65	NO
7540X-042	.870/22.10	.045/1.14	.039/.99	NOTE 9	.875/22.23	.860/21.84	.845/21.46	.985/25.02	NO
7540X-043	.504/12.80	.329/8.36	.039/.99	NOTE 9	.509/12.80	.494/12.55	.479/12.17	.900/22.86	NO
7540X-044	.324/8.23	.056/1.42	.039/.99	NOTE 9	.329/8.36	.314/7.98	.299/7.60	.450/11.43	NO
7540X-045	.499/12.68	.056/1.42	.039/.99	NOTE 9	.504/12.80	.489/12.42	.474/12.04	.625/15.88	NO
7540X-046	.430/10.92	.533/13.59	.039/.99	NOTE 9	.435/11.05	.420/10.67	.405/10.29	1.035/26.29	NO
7540X-047	.375/9.53	.070/1.78	.039/.99	NOTE 9	.380/9.65	.365/9.27	.350/8.89	.515/13.08	NO
7540X-048	.375/9.53	.275/6.99	.039/.99	NOTE 9	.380/9.68	.365/9.27	.350/8.89	.720/18.29	NO
7540X-049	.545/13.84	.070/1.78	.039/.99	NOTE 9	.550/13.97	.535/13.59	.520/13.21	.685/17.40	NO
7540X-050	.313/7.95	.317/8.05	.039/.99	NOTE 9	.318/8.08	.303/7.70	.288/7.32	.700/17.78	NO
7540X-051	.320/8.13	.045/1.14	.039/.99	NOTE 9	.325/8.26	.310/7.87	.295/7.49	.435/11.05	NO
7540X-052	.620/15.75	.590/14.99	.039/.99	NOTE 9	.625/15.88	.610/15.49	.595/15.11	1.280/32.51	NO
7540X-053	.245/6.22	.045/1.14	.039/.99	NOTE 9	.250/6.35	.235/5.97	.220/5.59	.360/9.14	NO
7540X-054	.623/15.82	.270/6.86	.039/.99	NOTE 9	.628/15.95	.613/15.57	.598/15.19	.963/24.46	NO
7540X-055	.684/17.37	.046/1.17	.039/.99	NOTE 9	.689/17.50	.674/17.12	.659/16.74	.800/20.32	NO
7540X-056	.295/7.49	.187/4.75	.039/.99	NOTE 9	.300/7.62	.285/7.24	.270/6.86	.552/14.02	NO
7540X-057	.785/19.94	.045/1.14	.039/.99	NOTE 9	.790/20.07	.775/19.69	.760/19.30	.900/22.86	NO
7540X-058	.747/18.97	.518/13.16	.039/.99	NOTE 9	.752/19.10	.737/18.72	.722/18.34	1.335/33.91	NO
7540X-059	.230/5.84	.130/3.30	.039/.99	NOTE 9	.235/5.97	.220/5.59	.205/5.20	.430/10.99	NO
7540X-060	.400/10.16	.440/11.18	.039/.99	NOTE 9	.405/10.29	.390/9.91	.375/9.53	.910/23.11	NO
7540X-061	.280/7.11	.192/4.88	.039/.99	NOTE 9	.285/7.24	.270/6.86	.255/6.48	.542/13.77	NO
7540X-062	.280/7.11	.085/2.16	.039/.99	NOTE 9	.285/7.24	.270/6.86	.255/6.48	.435/11.05	NO
7540X-063	.100/2.54	.050/1.27	.039/.99	NOTE 9	.105/2.67	N/A	N/A	.220/5.59	NO
7540X-064	.380/9.65	.650/16.51	.038/.97	NOTE 10	.385/9.78	.370/9.40	.355/9.02	1.100/27.94	YES
7540X-065	.610/15.49	.030/.76	.038/.97	NOTE 10	.615/15.62	.600/15.24	.585/14.86	.710/18.03	YES
7540X-066	.822/20.88	.045/1.14	.039/.99	NOTE 9	.827/21.01	.812/20.63	.797/20.24	.930/23.80	NO
7540X-067	.940/23.88	.045/1.14	.039/.99	NOTE 9	.945/24.00	.935/23.75	.920/23.37	1.055/26.80	NO
7540X-068	.194/4.93	.042/1.07	.039/.99	NOTE 9	.196/4.98	.181/4.60	.165/4.19	.306/7.77	NO
7540X-069	.944/23.98	.041/1.04	.039/.99	NOTE 9	.948/24.08	.933/23.69	.917/23.29	1.055/26.80	NO
7540X-070	.650/16.51	.380/9.65	.039/.99	NOTE 9	.655/16.64	.640/16.26	.625/15.88	1.100/27.94	NO

mat'l. code		surface		tolerance		projection		product family	
SEE NOTE 1		ASME Y14.5		ASME Y14.5				PIN PRODUCTS	
litr	ecn no	qtr	date	tolerances unless otherwise specified				title	
BE				angles				BERGPIN [®] :.200"[5.08]cc	
				xx.01"/X+.3				.039"[.99] DIA. STAR	
				xx.x+.005"/XX+.13					
				0" ±.2"				INCH/MM	
				XXXX+.0020/XXX+.051				scale 1:1	
				qtr M. CORNMANN				dwg no	
				ENGR K.D. PATEL				sheet 4 of 5 size	
				CHGR E. IORFIDO				75401	
				APPRD E. IORFIDO				A4	
revision								CUSTOMER Drawing	
sheet	revision								
index	sheet								

PRODUCT NUMBER	CONTACT AREA DIM A	TERMINATION AREA DIM B	DIM C	DIM H FOR .062 BOARD 1.57	DIM H FOR .093 BOARD 2.36	DIM H FOR .125 BOARD 3.18	OVERALL LENGTH DIM L	CUSTOMER RESTRICTED
7540X-071	.610/15.49	.044/1.12	.039/.99 NOTE 9	.614/15.59	.599/15.21	.583/14.81	.724/18.39	NO
7540X-072	.160/4.06	.030/.76	.039/.99 NOTE 9	.165/4.19	.150/3.81	.135/3.43	.260/6.60	NO
7540X-073	1.094/27.79	.037/.94	.039/.99 NOTE 9	1.098/27.89	1.083/27.51	1.067/27.10	1.201/30.51	NO
7540X-074	.216/5.49	.024/.61	.039/.99 NOTE 9	.220/5.59	.205/5.21	.190/4.83	.310/7.87	NO
7540X-075	.650/16.51	.380/9.65	.038/.97 NOTE 10	.655/16.64	.640/16.26	.625/15.88	1.100/27.94	YES
7540X-076	.295/7.49	.025/.64	.039/.99 NOTE 9	.300/7.62	.285/7.23	.270/6.85	.390/9.91	NO
7540X-077	.428/10.87	.025/.64	.039/.99 NOTE 9	.433/10.99	.418/10.61	.403/10.23	.523/13.28	NO
7540X-078	.530/13.46	.025/.64	.039/.99 NOTE 9	.535/13.58	.520/13.20	.505/12.82	.625/15.88	NO
7540X-079	.595/15.11	.025/.64	.039/.99 NOTE 9	.600/15.24	.585/14.85	.570/14.47	.690/17.53	NO
7540X-080	.665/16.89	.025/.64	.039/.99 NOTE 9	.670/17.01	.655/16.63	.640/16.25	.760/19.30	NO
7540X-081	.368/9.35	.045/1.14	.039/.99 NOTE 9	.373/9.47	.358/9.09	.343/8.71	.483/12.27	NO
7540X-082	.846/21.49	.045/1.14	.038/.97 NOTE 10	.851/21.61	.836/21.23	.821/20.85	.961/24.41	NO
7540X-083	.519/13.18	.502/12.75	.039/.99 NOTE 9	.549/13.94	.534/13.56	.519/13.18	1.091/27.71	NO
7540X-084	.630/16.00	.159/4.04	.039/.99 NOTE 9	.635/16.13	.620/15.75	.605/15.37	.859/21.82	NO
7540X-085	.519/13.18	.171/4.34	.039/.99 NOTE 9	.524/13.31	.509/12.93	.494/12.55	.760/19.30	NO
7540X-086	.926/23.52	.437/11.10	.039/.99 NOTE 9	.931/23.65	.916/23.27	.901/22.89	1.433/36.40	NO
7540X-087	.230/5.84	.045/1.14	.037/.94 NOTE 10	.235/5.97	.220/5.59	.205/5.21	.345/8.76	NO
7540X-088LF	.320/8.13	.045/1.14	.036/.91 NOTE 10	.325/8.26	.310/7.87	.295/7.49	.435/11.05	NO

NOTE 12

mat'l. code		SEE NOTE 1		surface		tolerance		projection		product family	
litr	ecn no	dr	date	ASPE Y4.5	ASPE Y4.5	ASPE Y4.5	ASPE Y4.5	ASPE Y4.5	ASPE Y4.5	PIN	PRODUCTS
BE				angles	XXX-007/XX-3	INCH/MM	Scale 1:1				
				dr	M. CORNMAN	1990-02-22					
				ENGR	K.D. PATEL	1990-02-22					
				cltr	E. IORFIDO	1992-12-21					
				apdd	E. IORFIDO	1992-12-21					
sheet	revision										
index	sheet										

title
BERGPIN® 200"[5.08]cc
.039"[0.99] DIA. STAR

sheet 5 of 5

size
A4

CUSTOMER Drawing