

PRODUCT NUMBER
 SEE TABLE

.013
.33
MAX TYP
NOTE 6

NOTE 5

NOTE 4

□ .025±.001
.64±.03

NOTE 2

OVERALL LENGTH
DIM "L"
±.010
±.25

⊕ .005/.13

25°±5°
REF TYP

DIM "C" -G-
NOTE 4

.010
.25
REF

90° 4X

90° REF

.034±.001
.86±.03 2X

⊕ .004/.10 G

R .002 [0.05] MAX 4X

 SECTION E-E
 SCALE 12/1
 WITHOUT FERRULE

CONTACT AREA
±.010
DIM "A" ±.25

DIM "H" REF

TERMINATION AREA
DIM B

.070 ±.010
1.78 ±.25

SECTION THRU PC BOARD

mat'l. code SEE NOTE 1				surface ASME Y14.5	tolerance ASME Y14.5	projection	product family PIN PRODUCTS		
ltr	ecr no	dr	date	tolerances unless otherwise specified		 INCH/MM scale 3:1	title		
Y	V07-0009	HTB	2007-01-05	angles	XX±01/XX±3		BERGPIN® LOOSE PIECE .039"[0.99] DIA. STAR		
AA	V08-0353	HTB	2008-08-18	0° ±2°	XXX±.005/XXX±.13				
U	V71498	HTB	1997-10-28	dr	M. FETROW	1994-05-16	dwg no 76151 sheet 1 of 5 size A4		
V	V01594	JRW	2000-07-12	enfr	L. FYE	1994-05-16			
W	V05-0399	HTB	2005-04-28	chr	L. FYE	1994-05-16	type CUSTOMER Drawing		
X	V06-0684	HTB	2006-07-24	appd	L. FYE	1994-05-16			
sheet index	revision sheet	AA	AA	AA	AA	AA			
		1	2	3	4	5			

PRODUCT NUMBER NOTE 9	PLATING	UNDERPLATING
76151-YYY	30μ" [0.76μ] MIN Au	50μ" [1.27μ] MIN Ni
76151-YYLFF		
76153-YYY	50μ" [1.27μ] MIN Au	50μ" [1.27μ] MIN Ni
76153-YYLFF		
76154-YYY	120μ" [3.05μ] MIN 93/7 SnPb	50μ" [1.27μ] MIN Ni
76154-YYLFF	100μ" [2.54μ] MIN Sn (NOTE 10)	50μ" [1.27μ] MIN Ni
76155-YYY	30μ" [0.76μ] MIN GXT™	50μ" [1.27μ] MIN Ni
76155-YYLFF		
76156-YYY	15μ" [0.38μ] MIN GXT™	50μ" [1.27μ] MIN Ni
76156-YYLFF		
76159-YYY	15μ" [0.38μ] MIN Au	50μ" [1.27μ] MIN Ni
76159-YYLFF		

DISCONTINUED

NOTES:

1. MATERIAL: 3/4 HARD PHOS BRONZE
ASTM B-159-66
2. BURNISH MARKS ON PIN PERMITTED
BURR .003 [0.08] MAX BULGE
.0005 [0.013] MAX TYP.
3. SEE PRODUCT SPECIFICATION BUS-12-064
FOR P.C. BOARD HOLE DIAMETER AND P.C.
BOARD HOLE PLATING INFORMATION.
4. .002 [0.05] R MAX TYP 4X ON WIRE
PORTION OF PIN.
5. TWO SIDES OF LEAD-IN NOT PLATED
TYP BOTH ENDS.
6. .016 [0.41] MAX OPPOSITE END IF DIM
B IS LESS THAN .230 [5.84].
7. TOLERANCE: +.001 [0.03], -.002 [0.05]
8. TOLERANCE: ±.001 [0.03]
9. ADD AN LF SUFFIX TO PART NUMBERS FOR PRODUCT
THAT MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
10. 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 ASME Y14.5 ✓		tolerance ASME Y14.5		projection ⌀		product family PIN PRODUCTS	
ltr	ecr no	dr	date	tolerances unless otherwise specified		INCH/MM		title	
AA				angles	XX+01/X+3 XXX+005/XXX+13			BERGPIN® LOOSE PIECE .039"[0.99] DIA. STAR	
				0° ±2'	XXXX+0020/XXX+051	scale 1:1		dwg no	
				dr	M. FETROW 1994-05-16	FCI		sheet 2 of 5	
				enr	L. FYE 1994-05-16			size	
				chr	L. FYE 1994-05-16			A4	
				appd	L. FYE 1994-05-16			type	
sheet index		revision sheet						CUSTOMER Drawing	



PRODUCT NO. NOTE 9	CONTACT AREA DIM "A"	TERMINATION AREA DIM "B"	DIM "C"	DIM "H" FOR .062 1.57 BOARD	DIM "H" FOR .093 2.36 BOARD	DIM "H" FOR .125 3.17 BOARD	OVERALL LENGTH DIM "L"	CUSTOMER RESTRICTED
7615X-001	.230/5.84	.045/1.14	.039/0.99 NOTE 7	.235/5.97	.220/5.59	.205/5.21	.345/8.76	NO
7615X-002	.265/6.73	.045/1.14	.039/0.99 NOTE 7	.270/6.86	.255/6.48	.240/6.10	.380/9.65	NO
7615X-003	.345/8.76	.045/1.14	.039/0.99 NOTE 7	.350/8.89	.335/8.51	.320/8.13	.460/11.68	NO
7615X-004	.400/10.16	.045/1.14	.039/0.99 NOTE 7	.405/10.29	.390/9.91	.375/9.53	.515/13.08	NO
7615X-005	.415/10.54	.045/1.14	.039/0.99 NOTE 7	.420/10.67	.405/10.29	.390/9.91	.530/13.46	NO
7615X-006	.435/11.05	.045/1.14	.039/0.99 NOTE 7	.440/11.18	.425/10.80	.410/10.41	.550/13.97	NO
7615X-007	.465/11.81	.045/1.14	.039/0.99 NOTE 7	.470/11.94	.455/11.56	.440/11.18	.580/14.73	NO
7615X-008	.515/13.08	.045/1.14	.039/0.99 NOTE 7	.520/13.21	.505/12.83	.490/12.45	.630/16.00	NO
7615X-009	.575/14.61	.040/1.02	.039/0.99 NOTE 7	.575/14.61	.560/14.22	.545/13.84	.685/17.40	NO
7615X-010	.585/14.86	.045/1.14	.039/0.99 NOTE 7	.590/14.99	.575/14.61	.560/14.22	.700/17.78	NO
7615X-011	.635/16.13	.045/1.14	.039/0.99 NOTE 7	.640/16.26	.625/15.88	.610/15.49	.750/19.05	NO
7615X-012	.655/16.64	.045/1.14	.039/0.99 NOTE 7	.660/16.76	.645/16.38	.630/16.00	.770/19.56	NO
7615X-013	.745/18.92	.045/1.14	.039/0.99 NOTE 7	.750/19.05	.735/18.67	.720/18.29	.860/21.84	NO
7615X-014	.265/6.73	.245/6.22	.039/0.99 NOTE 7	.270/6.86	.255/6.48	.240/6.10	.580/14.73	NO
7615X-015	.345/8.76	.245/6.22	.039/0.99 NOTE 7	.350/8.89	.335/8.51	.320/8.13	.660/16.76	NO
7615X-016	.400/10.16	.245/6.22	.039/0.99 NOTE 7	.405/10.29	.390/9.91	.375/9.53	.715/18.16	NO
7615X-017	.465/11.81	.245/6.22	.039/0.99 NOTE 7	.470/11.94	.455/11.56	.440/11.18	.780/19.81	NO
7615X-018	.570/14.48	.245/6.22	.039/0.99 NOTE 7	.575/14.61	.560/14.22	.545/13.84	.885/22.48	NO
7615X-019	.625/15.88	.245/6.22	.039/0.99 NOTE 7	.630/16.00	.615/15.62	.600/15.24	.940/23.88	NO
7615X-020	.655/16.64	.245/6.22	.039/0.99 NOTE 7	.660/16.76	.645/16.38	.630/16.00	.970/24.64	NO
7615X-021	.265/6.73	.355/9.02	.039/0.99 NOTE 7	.270/6.86	.255/6.48	.240/6.10	.690/17.53	NO
7615X-022	.345/8.76	.355/9.02	.039/0.99 NOTE 7	.350/8.89	.335/8.51	.320/8.13	.770/19.56	NO
7615X-023	.400/10.16	.355/9.02	.039/0.99 NOTE 7	.405/10.29	.390/9.91	.375/9.53	.825/20.96	NO
7615X-024	.465/11.81	.355/9.02	.039/0.99 NOTE 7	.470/11.94	.455/11.56	.440/11.18	.890/22.61	NO
7615X-025	.570/14.48	.355/9.02	.039/0.99 NOTE 7	.575/14.61	.560/14.22	.545/13.84	.995/25.27	NO
7615X-026	.625/15.88	.355/9.02	.039/0.99 NOTE 7	.630/16.00	.615/15.62	.600/15.24	1.050/26.67	NO
7615X-027	.655/16.64	.355/9.02	.039/0.99 NOTE 7	.660/16.76	.645/16.38	.630/16.00	1.080/27.43	NO

mat'l. code SEE NOTE 1		surface ASME Y14.5 ☒		tolerance ASME Y14.5		projection 		product family PIN PRODUCTS	
ltr	ecr no	dr	date	tolerances unless otherwise specified		INCH/MM		title	
AA				angles	XX*01/X*3			BERGPIN® LOOSE PIECE	
				0° ±2'	XXX*005/XXX*13			.039"[0.99] DIA. STAR	
					XXXX*0020/XXX*051	scale 1:1		dwg no	
				dr	M. FETROW 1994-05-16			sheet 3 of 5	
				enr	L. FYE 1994-05-16			size	
				chr	L. FYE 1994-05-16			76151	
				appd	L. FYE 1994-05-16			A4	
sheet index	revision sheet							type CUSTOMER Drawing	



PRODUCT NO. NOTE 9	CONTACT AREA DIM "A"	TERMINATION AREA DIM "B"	DIM "C"	DIM "H" FOR .062 1.57 BOARD	DIM "H" FOR .093 2.36 BOARD	DIM "H" FOR .125 3.17 BOARD	OVERALL LENGTH DIM "L"	CUSTOMER RESTRICTED	
7615X-028	.305/7.75	.035/0.89	.039/0.99 NOTE 7	.310/7.87	.295/7.49	.280/7.11	.410/10.41	NO	
7615X-029	.755/19.18	.345/8.76	.039/0.99 NOTE 7	.760/19.30	.745/18.92	.730/18.54	1.170/29.72	NO	
7615X-030	.710/18.03	.345/8.76	.039/0.99 NOTE 7	.715/18.16	.700/17.78	.685/17.40	1.125/28.58	NO	
7615X-031	.545/13.84	.198/5.03	.039/0.99 NOTE 7	.550/13.97	.535/13.59	.520/13.21	.813/20.65	NO	
7615X-032									OBSOLETE
7615X-033	.335/8.51	.375/9.53	.039/0.99 NOTE 7	.340/8.64	.325/8.26	.310/7.87	.780/19.81	NO	
7615X-034	.535/13.59	.045/1.14	.039/0.99 NOTE 7	.540/13.72	.525/13.34	.510/12.95	.650/16.51	NO	
7615X-035	.560/14.22	.260/6.60	.039/0.99 NOTE 7	.565/14.35	.550/13.97	.535/13.59	.890/22.61	NO	
7615X-036	.510/12.95	.381/9.68	.039/0.99 NOTE 7	.515/13.08	.500/12.70	.485/12.32	.961/24.41	NO	
7615X-037	.325/8.26	.101/2.57	.039/0.99 NOTE 7	.330/8.38	.315/8.00	.300/7.62	.496/12.60	NO	
7615X-038	.595/15.11	.330/8.38	.039/0.99 NOTE 7	.600/15.24	.585/14.86	.570/14.48	.995/25.27	NO	
7615X-039	.755/19.18	.065/1.65	.039/0.99 NOTE 7	.760/19.30	.745/18.92	.730/18.54	.890/22.61	NO	
7615X-040	.315/8.00	.395/10.03	.039/0.99 NOTE 7	.320/8.13	.305/7.75	.290/7.37	.780/19.81	NO	
7615X-041	.230/5.84	.080/2.03	.039/0.99 NOTE 7	.235/5.97	.220/5.59	.205/5.21	.380/9.65	NO	
7615X-042	.870/22.10	.045/1.14	.039/0.99 NOTE 7	.875/22.23	.860/21.84	.845/21.46	.985/25.02	NO	
7615X-043	.504/12.80	.329/8.36	.039/0.99 NOTE 7	.509/12.80	.494/12.55	.479/12.17	.900/22.86	NO	
7615X-044	.324/8.23	.056/1.42	.039/0.99 NOTE 7	.329/8.36	.314/7.98	.299/7.60	.450/11.43	NO	
7615X-045	.499/12.68	.056/1.42	.039/0.99 NOTE 7	.504/12.80	.489/12.42	.474/12.04	.625/15.88	NO	
7615X-046	.430/10.92	.535/13.59	.039/0.99 NOTE 7	.435/11.05	.420/10.67	.405/10.29	1.035/26.29	NO	
7615X-047	.375/9.53	.070/1.78	.039/0.99 NOTE 7	.380/9.65	.365/9.27	.350/8.89	.515/13.08	NO	
7615X-048	.375/9.53	.275/6.99	.039/0.99 NOTE 7	.380/9.65	.365/9.27	.350/8.89	.720/18.29	NO	
7615X-049	.545/13.84	.070/1.78	.039/0.99 NOTE 7	.550/13.97	.535/13.59	.520/13.21	.685/17.40	NO	
7615X-050	.313/7.95	.317/8.05	.039/0.99 NOTE 7	.318/8.08	.303/7.70	.288/7.32	.700/17.78	NO	
7615X-051	.320/8.13	.045/1.14	.039/0.99 NOTE 7	.325/8.26	.310/7.87	.295/7.49	.435/11.05	NO	
7615X-052	.620/15.75	.590/14.99	.039/0.99 NOTE 7	.625/15.88	.610/15.49	.595/15.11	1.280/35.51	NO	
7615X-053	.245/6.22	.045/1.14	.039/0.99 NOTE 7	.250/6.35	.235/5.97	.220/5.59	.360/9.14	NO	
7615X-054	.623/15.82	.270/6.86	.039/0.99 NOTE 7	.628/15.95	.613/15.57	.598/15.19	.963/24.46	NO	

mat'l. code SEE NOTE 1				surface ASME Y14.5 ☒		tolerance ASME Y14.5		projection 		product family PIN PRODUCTS	
ltr	ecr no	dr	date	tolerances unless otherwise specified						title	
AA				angles	XX*01/X*3					BERGPIN® LOOSE PIECE	
					XXX*005/XXX*13					.039"[0.99] DIA. STAR	
				0° ±2°	XXXX*0020/XXX*051			scale 1:1		dwg no	
				dr	M. FETROW	1994-05-16					sheet 4 of 5
				enr	L. FYE	1994-05-16					size
				chr	L. FYE	1994-05-16					A4
				appd	L. FYE	1994-05-16					type
sheet index	revision	sheet									CUSTOMER Drawing



PRODUCT NO. NOTE 9	CONTACT AREA DIM "A"	TERMINATION AREA DIM "B"	DIM "C"	DIM "H" FOR .062 1.57 BOARD	DIM "H" FOR .093 2.36 BOARD	DIM "H" FOR .125 3.17 BOARD	OVERALL LENGTH DIM "L"	CUSTOMER RESTRICTED
7615X-055	.684/17.37	.051/1.30	.039/0.99 NOTE 7	.689/17.50	.674/17.12	.659/16.74	.800/20.32	NO
7615X-056	.295/7.49	.192/4.88	.039/0.99 NOTE 7	.300/7.62	.285/7.24	.270/6.86	.552/14.02	NO
7615X-057	.785/19.94	.050/1.27	.039/0.99 NOTE 7	.790/20.07	.775/19.69	.760/19.30	.900/22.86	NO
7615X-058	.747/18.97	.524/13.31	.039/0.99 NOTE 7	.752/19.10	.737/18.72	.722/18.34	1.335/33.91	NO
7615X-059	.230/5.84	.135/3.43	.039/0.99 NOTE 7	.235/5.97	.220/5.59	.205/5.20	.430/10.92	NO
7615X-060	.400/10.16	.440/11.18	.039/0.99 NOTE 7	.405/10.29	.390/9.91	.375/9.53	.910/23.11	NO
7615X-061	.280/7.11	.192/4.88	.039/0.99 NOTE 7	.285/7.24	.270/6.86	.255/6.48	.542/13.77	NO
7615X-062	.280/7.11	.085/2.16	.039/0.99 NOTE 7	.285/7.24	.270/6.86	.255/6.48	.435/11.05	NO
7615X-063	.100/2.54	.050/1.27	.039/0.99 NOTE 7	.105/2.67	.090/2.29	.075/1.91	.220/5.59	NO
7615X-064	.380/9.65	.650/16.51	.039/0.99 NOTE 7	.385/9.78	.370/9.40	.355/9.02	1.100/27.94	NO
7615X-065	.610/15.49	.030/0.76	.038/0.97 NOTE 8	.615/15.62	.600/15.24	.585/14.86	.710/18.03	YES
7615X-066	.822/20.88	.045/1.14	.039/0.99 NOTE 7	.827/21.01	.812/20.63	.797/20.24	.937/23.80	NO
7615X-067	.945/24.00	.045/1.14	.039/0.99 NOTE 7	.945/24.00	.935/23.75	.920/23.37	1.055/26.80	NO
7615X-068	.194/4.93	.042/1.07	.039/0.99 NOTE 7	.196/4.98	.181/4.60	.165/4.19	.306/7.77	NO
7615X-069	.220/5.59	.220/5.59	.039/0.99 NOTE 7	.225/5.72	.210/5.33	.195/4.95	.510/12.95	NO

mat'l. code SEE NOTE 1				surface ASME Y14.5 ☒		tolerance ASME Y14.5		projection 		product family PIN PRODUCTS	
litr	ecr no	dr	date	tolerances unless otherwise specified						title	
AA				angles	XX*01/XX*3					BERGPIN® LOOSE PIECE	
					XXX*005/XXX*13					.039"[0.99] DIA. STAR	
				0° ±2'	XXXX*0020/XXX*051			scale 1:1		dwg no	
				dr	M. FETROW	1994-05-16					sheet 5 of 5
				enr	L. FYE	1994-05-16					size
				chr	L. FYE	1994-05-16					A4
				appd	L. FYE	1994-05-19					type
sheet index		revision sheet								CUSTOMER Drawing	