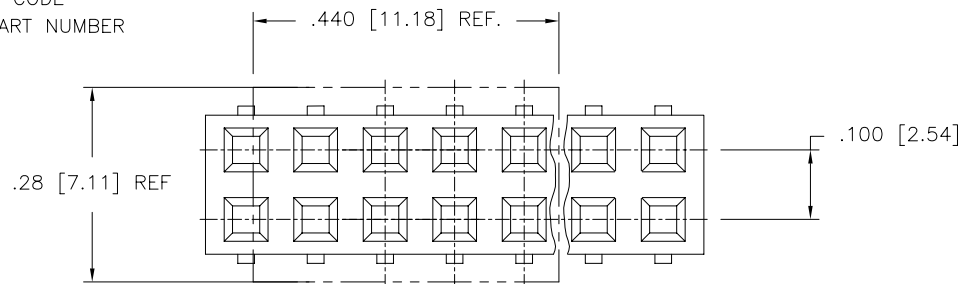


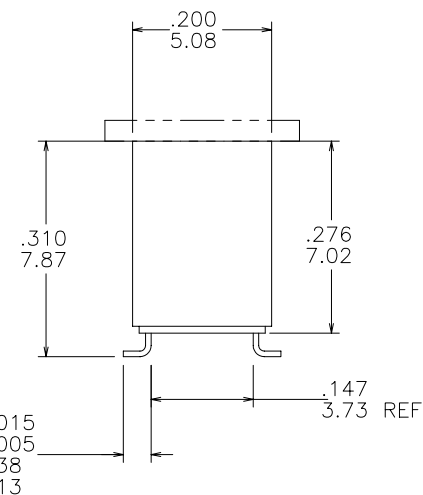
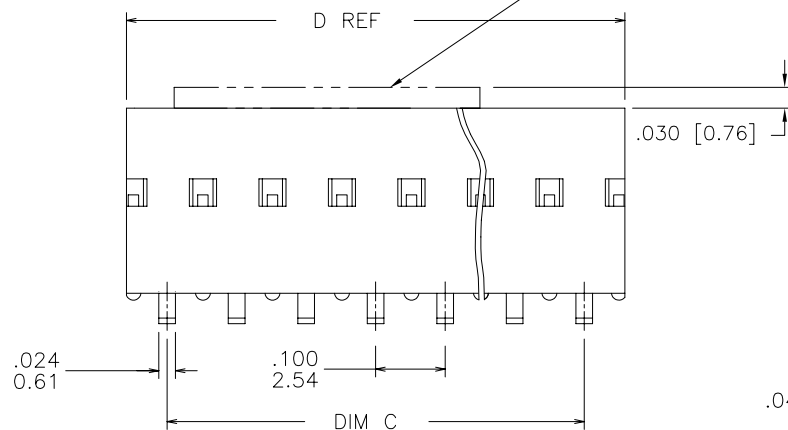
PRODUCT NUMBER
SEE TABLE

68046 - XXX - LF

LEAD FREE OPTION
PACKAGING OPTION NOTE 6. OMIT IF NOT REQUIRED
NO OF POSITIONS PER ROW
PLATING CODE
BASE PART NUMBER



VACUUM CAP FOR
TAPE & REEL PACKAGING
OPTION. NOTE 8



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family DUBOX			
ltr	ecn	no	dr	date		tolerances unless otherwise specified						title	
AI	V21654	GIP	10/15/02			angles	linear	.XX±.01/.X±.3	INCH/MM 		SMT DOUBLE ROW VCC ASSEMBLY		
AM	V03-0309	HTB	04/26/03					.XXX±.0.005/.XX±.13					
AN	V04-0986	DAI	10/13/04	0°±2'				.XXX±.0020/.XX±.051	scale 1:1				
AP	V04-1003	DAI	10/25/04	dr	J. SHREINER	11/07/90				dwg no		sheet 1 of 5	size
AR	V05-0463	DPU	06/28/05	enrg	M. HAHN	11/07/90				68046		A3	
AS	M07-0143	ERE	03/03/07	chr	M. HAHN	11/07/90							
AT	M07-0203	AGS	5/02/07	appd	M. HAHN	11/07/90							
sheet		revision		AT	AT	AT							
index		sheet		1	2	3							

PRODUCT NUMBER NOTE 15	PLATING CONTACT AREA	PLATING SOLDER TAIL	MATERIAL REF	
68046-2XX	15μ"/.38μ Au MIN OVER 50μ"/1.27μ Ni MIN SEE NOTE 18	100μ"/160μ" SN 2.54μ"/4.06μ"	NOTE 3&4	
68046-3XX	30μ"/.76μ Au MIN OVER 50μ"/1.27μ Ni MIN SEE NOTE 18	100μ"/160μ" SN 2.54μ"/4.06μ"	NOTE 3&4	
68046-4XX	100μ"/2.54μ SN MIN OVER 50μ"/1.27μ Ni MIN	100μ"/160μ" SN 2.54μ"/4.06μ"	NOTE 3,4&17	
68046-6XX	30μ"/.76μ Au MIN OVER 50μ"/1.27μ Ni MIN SEE NOTE 18	100μ"/160μ" SN 2.54μ"/4.06μ"	NOTE 3&4	
68046-8XX	30μ"/.76μ Au MIN OVER 50μ"/1.27μ Ni MIN	200μ"/5.08μ SL MIN	NOTE 3&4	OBSOLETE

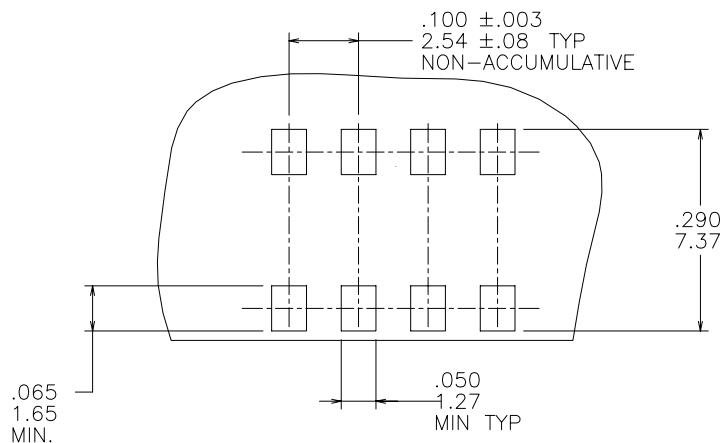


FIGURE A
TOP ENTRY
.025/.64 SQ PIN

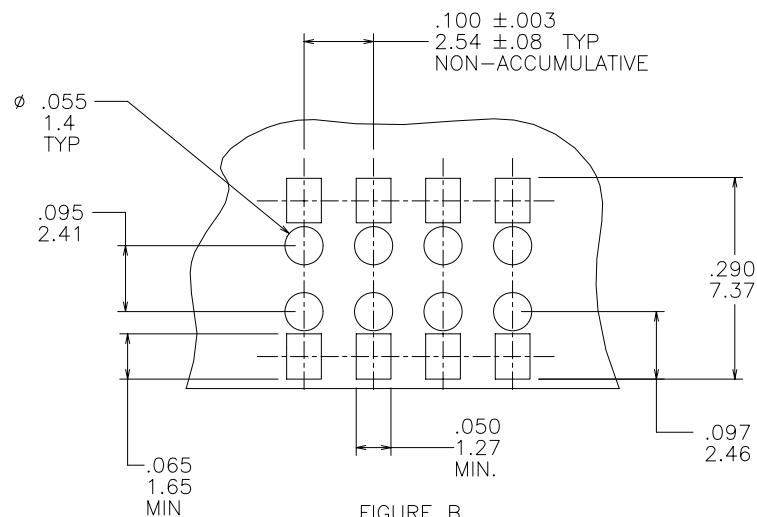


FIGURE B
BOTTOM ENTRY (THROUGH PWB)
.025/.64 SQ PIN

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family DUBOX
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title
AT					angles	linear	SMT DOUBLE ROW VCC ASSEMBLY
					0°±2'	scale 1:1	
					dr	J. SHREINER 11/07/90	dwg no
					enr	M. HAHN 11/07/90	sheet 2 of 5
					chr	M. HAHN 11/07/90	size
					appd	M. HAHN 11/07/90	A3
sheet	revision						type
index	sheet						Product Customer Drawing

VACUUM PICK-UP CAP
CENTRALLY LOCATED

DUBOX VERTICAL RECEPTACLE
DOUBLE ROW

.157/4.0
POCKET PITCH
NOTE 10
TAPE WIDTH
NOTE 10
.069/1.75

TAPE AND REEL PACKAGING

SEE NOTE 7

NOTES:

- ①. TERMINAL MATERIAL: PHOSPHOR BRONZE.
EXTRA HARD
2. RECOMMENDED APPLICATION DATA:
 - A. RECOMMENDED SOLDER PAD PATTERN IS SHOWN IN FIGURE A & B.
 - B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF
ON GIVEN TERMINAL SPACING WITHIN .015/.38 DIA.
 - C. SUGGESTED MATING PIN LENGTH .210±.010 [5.33±.51]
- ③. HOUSING MATERIAL: P.P.S. FILLED.
FLAME RETARDANT PER UL-94-V0.
COMPATIBLE WITH INFRA-RED SOLDERING.
COLOR: BLACK
PART WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE
FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR
VAPOR PHASE SOLDER PROCESS.
- ④. PRESTAMPED POST PLATED TERMINAL.
5. FCI, FCI FINAL PART NUMBER AND DATE CODE
TO BE MARKED ON TUBE LABEL.
6. ADD SUFFIX 'P' TO DASH NUMBER AS FOURTH DIGIT FOR TAPE & REEL
PACKAGING.
- ⑦. TAPE AND REEL PACKAGING PER GES-14-334.
- ⑧. VACUUM CAP MATERIAL: L.C.P., FLAME RETARDANT UL 94 V-0.
COLOR : BLACK
CAP IS USED WITH TAPE AND REEL PACKAGING.
CAP IS TO BE CENTRALLY LOCATED ON PART.
9. TAPE AND REEL PACKAGING FOR 24mm WIDE AND BELOW HAVE PILOT HOLES ON
ONE SIDE OF TAPE ONLY. SIZES ABOVE 24mm HAVE PILOT HOLES ON BOTH
OF TAPE.
- ⑩. TAPE & REEL PACKAGING 24mm AND 32mm TAPE WIDTH, WITH 112mm POCKET
PITCH.
11. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS 2.50
LONG /63.5mm
- ⑫. PART NUMBER WITH SUFFIX "U" IS FOR SAWING PURPOSES ONLY.
13. STANDARD TUBE PACKAGE PER BUS-14-097/3.
- ⑭. TAPE & REEL PACKAGING 72mm TAPE WIDTH WITH 16mm POCKET PITCH.
- ⑮. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION
16. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- ⑰. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS".
- ⑱. PLATING OPTIONS:
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family DUBOX		
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title		
AT					angles	linear	SMT DOUBLE ROW		
					0°±2'		VCC ASSEMBLY		
					dr	J. SHREINER	11/07/90	scale 1:1	
					enr	M. HAHN	11/07/90	dwg no	
					chr	M. HAHN	11/07/90	sheet 3 of 5	
					appd	M. HAHN	11/07/90	size	
sheet		revision						A3	
index		sheet						type Product Customer Drawing	



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PRODUCT NUMBER	NO. OF POS.	C DIM	D DIM	TAPE & REEL PACKAGING	LF OPTION
68046-Y02	2 X 2	.100/2.540	.217/5.511	NO	NOTE 15
↑ -Y03	2 X 3	.200/5.080	.317/8.051	NO	
-Y04	2 X 4	.300/7.620	.417/10.591	NO	
-Y05	2 X 5	.400/10.160	.517/13.131	NO	
-Y06	2 X 6	.500/12.700	.617/15.671	NO	
-Y07	2 X 7	.600/15.240	.717/18.211	NO	
-Y08	2 X 8	.700/17.780	.817/20.751	NO	
-Y09	2 X 9	.800/20.320	.917/23.291	NO	
-Y10	2 X 10	.900/22.860	1.017/25.831	NO	
-Y11	2 X 11	1.000/25.400	1.117/28.371	NO	
-Y12	2 X 12	1.100/27.940	1.217/30.911	NO	
-Y13	2 X 13	1.200/30.480	1.317/33.451	NO	
-Y14	2 X 14	1.300/33.020	1.417/35.991	NO	
-Y15	2 X 15	1.400/35.560	1.517/38.531	NO	
-Y16	2 X 16	1.500/38.100	1.617/41.071	NO	
-Y17	2 X 17	1.600/40.640	1.717/43.611	NO	
-Y18	2 X 18	1.700/43.180	1.817/46.151	NO	
-Y19	2 X 19	1.800/45.720	1.917/48.691	NO	
-Y20	2 X 20	1.900/48.260	2.017/51.231	NO	
-Y21	2 X 21	2.000/50.800	2.117/53.771	NO	
-Y22	2 X 22	2.100/53.340	2.217/56.311	NO	
-Y23	2 X 23	2.200/55.880	2.317/58.851	NO	
-Y24	2 X 24	2.300/58.420	2.417/61.391	NO	
↓ 68046-Y25	2 X 25	2.400/60.960	2.517/63.931	NO	

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family DUBOX	
ltr				ecn		no		dr		date	
AT											
				angles		linear		.XX±.01/.X±.3		INCH/MM	
				0°±2'				.XXX±.0.005/.XX±.13			
								.XXXX±.0020/.XXX±.051		scale 1:1	
				dr		J. SHREINER		11/07/90		dwg no	
				enr		M. HAHN		11/07/90		sheet 4 of 5	
				chr		M. HAHN		11/07/90		size	
				appd		M. HAHN		11/07/90		A3	
sheet		revision								type	
index		sheet								Product Customer Drawing	



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PROD. NUMBER	NO. POSI.	C DIM	D DIM	TAPE & REEL PACKAGING	LF OPTION
68046-Y26	2 X 26	2.500/63.500	2.617/66.471	NO	NOTE 15
↑ -Y27	2 X 27	2.600/66.040	2.717/69.011	NO	
-Y28	2 X 28	2.700/68.580	2.817/71.551	NO	
-Y29	2 X 29	2.800/71.120	2.917/74.091	NO	
-Y30	2 X 30	2.900/73.660	3.017/76.631	NO	
-Y31	2 X 31	3.000/76.200	3.117/79.171	NO	
-Y32	2 X 32	3.100/78.740	3.217/81.711	NO	
-Y33	2 X 33	3.200/81.280	3.317/84.251	NO	
-Y34	2 X 34	3.300/83.820	3.417/86.791	NO	
-Y35	2 X 35	3.400/86.360	3.517/89.331	NO	
-Y36	2 X 36	3.500/88.900	3.617/91.871	NO	
-Y37	2 X 37	3.600/91.440	3.717/94.411	NO	
-Y38	2 X 38	3.700/93.980	3.817/96.951	NO	
-Y39	2 X 39	3.800/96.520	3.917/99.491	NO	
-Y40	2 X 40	3.900/99.060	4.017/102.031	NO	
-Y41	2 X 41	4.000/101.600	4.117/104.571	NO	
-Y42	2 X 42	4.100/104.140	4.217/107.111	NO	
-Y43	2 X 43	4.200/106.680	4.317/109.651	NO	
-Y44	2 X 44	4.300/109.220	4.417/112.191	NO	
-Y45	2 X 45	4.400/111.760	4.517/114.731	NO	
-Y46	2 X 46	4.500/114.300	4.617/117.271	NO	
-Y47	2 X 47	4.600/116.840	4.717/119.811	NO	
-Y48	2 X 48	4.700/119.380	4.817/122.351	NO	
-Y49	2 X 49	4.800/121.920	4.917/124.891	NO	
-Y50	2 X 50	4.900/124.460	5.017/127.431	NO	
-Y50U	2 X 50	4.900/124.460	5.017/127.431	NO	
-Y03P	2 X 3	0.200/5.080	0.317/8.051	YES	
↓ -Y04P	2 X 4	0.300/7.620	0.417/10.592	YES	
68046 -Y05P	2 X 5	.400/10.160	.517/13.131	YES	
68046-Y07P	2 X 7	0.600/15.240	0.717/18.211	YES	
68046-Y12P	2 X 12	1.100/27.94	1.217/30.91	YES	
68046 -Y13P	2 X 13	1.200/30.48	1.317/33.45	YES	
68046 -Y18P	2 X 18	1.700/43.180	1.817/46.151	YES	

NOTE 12
 NOTE 6 & 9
 NOTE 6 & 9
 NOTE 6 & 9
 NOTE 6, 9 & 10
 NOTE 6 & 9 — OBSOLETE
 NOTE 6 & 9
 NOTE 6 & 14

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family DUBOX			
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title			
AT					angles	linear	INCH/MM			
					0°±2'		scale 1:1			
					dr	J. SHREINER	11/07/90	dwg no		
					enr	M. HAHN	11/07/90	sheet 5 of 5		size
					chr	M. HAHN	11/07/90	68046		A3
					appd	M. HAHN	11/07/90	type Product Customer Drawing		
sheet index	revision sheet									