

PRODUCT NUMBER  
SEE TABLE

68402-XXX-LF

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

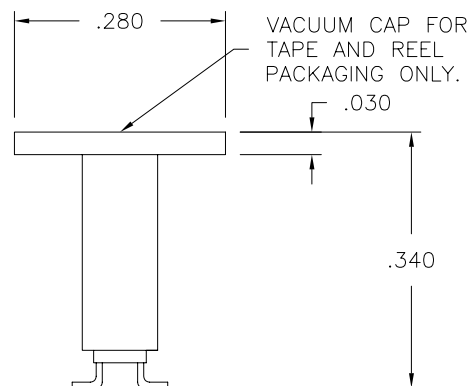
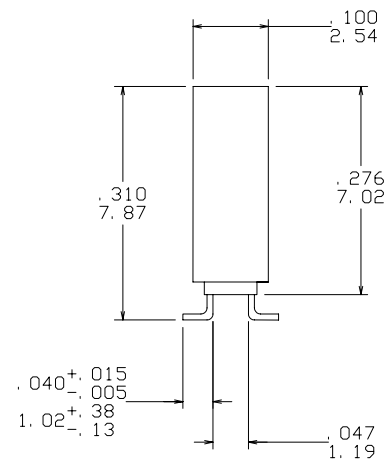
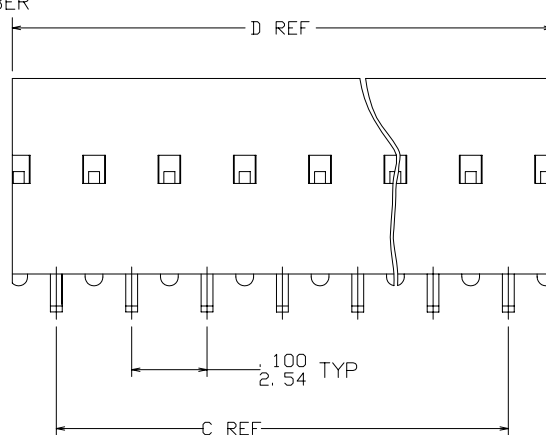





FIGURE 1

mat'l. code				surface <input checked="" type="checkbox"/> ISO 1302 <input checked="" type="checkbox"/> tolerance <input checked="" type="checkbox"/> ISO 406 <input checked="" type="checkbox"/> ISO 1101			product family DUBOX			
ltr	ecn no	dr	date	tolerances unless otherwise specified			title			
M	V10122	GIP	01/07/02	<div>angles</div> <div>linear</div>	.XX±.01/.3		DUBOX SURFACE MOUNT S/R			
N	V11677	GIP	01/22/02		.XXX±.005/.13		VERTICAL CARD CONNECTOR			
P	V20156	GIP	02/05/02		.XXXX±.0020/.051		scale 5:1			
R	V03-0309	HTB	04/28/03	dr	J. SHEREINER	11/07/90		dwg no	sheet 1 of 5	size
S	V05-0463	DPU	06/28/05	enr	M. HAHN	11/07/90				
T	M07-0114	AGS	02/15/07	chr	M. HAHN	11/07/90				
U	M07-0198	MHT	4/24/07	appd	M. HAHN	11/07/90				
sheet	revision	U	U	U	U	U	type Product Customer Drawing			
index	sheet	1	2	3	4	5				



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FIGURE A  
TOP ENTRY  
.025/.64 SQ PIN

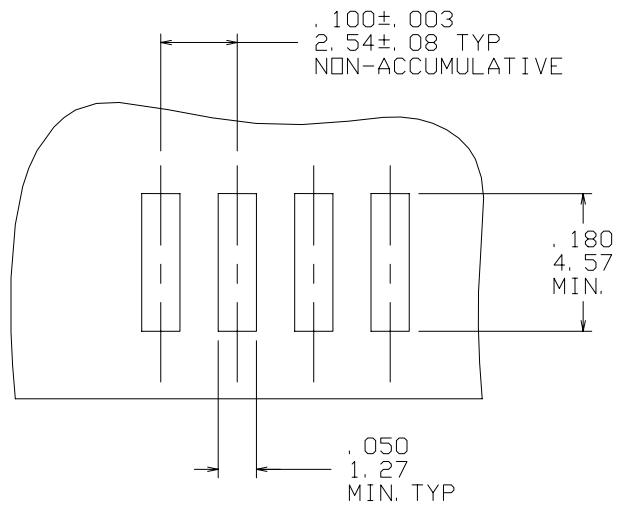
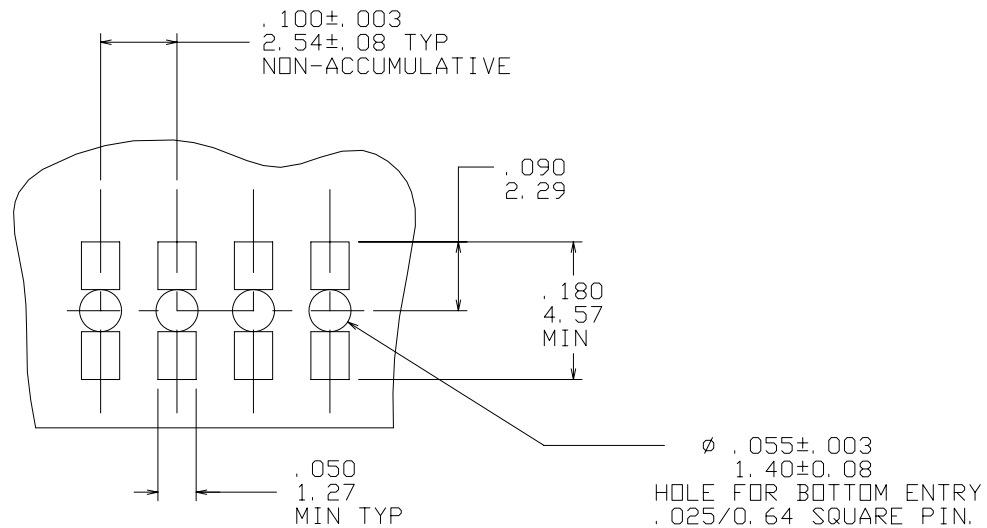


FIGURE B  
BOTTOM ENTRY (THROUGH PWB)  
.025/.64 SQ PIN



mat'l. code				surface	ISO 1302	tolerance	ISO 406	projection	product family
							ISO 1101		DUBOX
ltr	ecn	no	dr	date	tolerances unless otherwise specified				title
U					angles	linear	.XX±.01/.3	INCH/MM	DUBOX SURFACE MOUNT S/R VERTICAL CARD CONNECTOR
					0'±2'		.xxx±.005/.13		
							.xxxx±.0020/.051	scale 5:1	dwg no
				dr	J. SHEREINER	11/07/90			sheet 2 of 5 size
				enr	M. HAHN	11/07/90			68402
				chr	M. HAHN	11/07/90			A3
				appd	M. HAHN	11/07/90			type Product Customer Drawing
sheet	revision								
index	sheet								

form: A3



PRODUCT NO NOTE 14	PLATING CONTACT AREA NOTE 16	PLATING SOLDER TAIL	MATERIAL REF.	
68402-2XX	15u"/.38u Au MIN OVER 50u"/1.27u NI MIN OR GXT	100μ"/160μ" SN 2.54μ/4.06μ	NOTE 3 & 4	
68402-3XX	30u"/.76u Au MIN OVER 50u"/1.27u NI MIN OR GXT	100μ"/160μ" SN 2.54μ/4.06μ	NOTE 3 & 4	
68402-6XX	30u"/.76u Au MIN OVER 50u"/1.27u NI MIN OR GXT	100μ"/160μ" SN 2.54μ/4.06μ	NOTE 3 & 4	
68402-8XX	30u"/.76u Au MIN OVER 50u"/1.27u NI MIN	100μ"/160μ" SN 2.54μ/4.06μ	NOTE 3 & 4	OBSOLETE

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mat'l. code		surface ISO 1302 <input checked="" type="checkbox"/>		tolerance ISO 406 ISO 1101		projection 		product family DUBOX	
ltr	ecn no	dr	date		tolerances unless otherwise specified		title		
U					angles	linear	INCH/MM	DUBOX SURFACE MOUNT S/R	
					0°±2°	.xxx±.005/.13	scale 5:1	VERTICAL CARD CONNECTOR	
					dr	J. SHEREINER	11/07/90	dwg no	
					enrg	M. HAHN	11/07/90	sheet 3 of 5 size	
					chr	M. HAHN	11/07/90	68402 A3	
					appd	M. HAHN	11/07/90	type Product Customer Drawing	
sheet index	revision sheet								

PRODUCT NUMBER

SEE TABLE

VACUUM PICK-UP CAP  
CENTRALLY LOCATEDDUBOX VERTICAL RECEPTACLE  
DOUBLE ROW

.157/4.0  
NOTE 9

POCKET PITCH  
NOTE 10


TAPE WIDTH  
NOTE 10

.069/1.75

FIGURE 2  
TAPE & REEL PACKAGING

## 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 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 V-0.  
THIS PART WILL WITHSTAND EXPOSURES 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 PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.
- ⑥. ADD SUFFIX 'P' TO DASH NUMBER AS FOURTH DIGIT FOR TAPE AND 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
- 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 SIDES OF TAPE.
- ⑩. TAPE & REEL PACKAGING 32mm TAPE WIDTH, WITH 12mm POCKET PITCH.
- ⑪. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS 2.50 INCHES LONG /63.5mm
- ⑫. PART NUMBER WITH "U" SUFFIX IS FOR SAWING PURPOSES ONLY.
13. STANDARD TUBE PACKAGE PER BUS-14-097/3.
- ⑭. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
15. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- ⑯. PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

mat'l. code				surface	tolerance	projection	product family			
				ISO 1302	ISO 406 ISO 1101		DUBOX			
ltr	ecn	no	dr	date	tolerances unless otherwise specified		 scale 5:1	title		
U					angles	linear		DUBOX SURFACE MOUNT S/R		
					0°±2'	.XX±.01/.3 .xxx±.005/.13 .xxxx±.0020/.051		VERTICAL CARD CONNECTOR		
					dr	J. SHEREINER 11/07/90		dwg no		
					enr	M. HAHN 11/07/90	sheet 4 of 5		size	
					chr	M. HAHN 11/07/90	68402		A3	
					appd	M. HAHN 11/07/90	type		Product Customer Drawing	
sheet	revision									
index	sheet									



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PRODUCT NO.	NO. OF POSITIONS	C DIM	D DIM	TAPE & REEL PACKAGING	LF OPTIONS
68402-Y02	1 X 2	.100/2.540	.217/5.511	NO	↑
↑ -Y03	1 X 3	.200/5.080	.317/8.051	NO	
-Y04	1 X 4	.300/7.620	.417/10.591	NO	
-Y05	1 X 5	.400/10.160	.517/13.131	NO	
-Y06	1 X 6	.500/12.700	.617/15.671	NO	
-Y07	1 X 7	.600/15.240	.717/18.211	NO	
-Y08	1 X 8	.700/17.780	.817/20.751	NO	
-Y09	1 X 9	.800/20.320	.917/23.291	NO	
-Y10	1 X 10	.900/22.860	1.017/25.831	NO	
-Y11	1 X 11	1.000/25.400	1.117/28.371	NO	
-Y12	1 X 12	1.100/27.940	1.217/30.911	NO	
-Y13	1 X 13	1.200/30.480	1.317/33.451	NO	
-Y14	1 X 14	1.300/33.020	1.417/35.991	NO	
-Y15	1 X 15	1.400/35.560	1.517/38.531	NO	NOTE 14
-Y16	1 X 16	1.500/38.100	1.617/41.071	NO	
-Y17	1 X 17	1.600/40.640	1.717/43.611	NO	
-Y18	1 X 18	1.700/43.180	1.817/46.151	NO	
-Y19	1 X 19	1.800/45.720	1.917/48.691	NO	
-Y20	1 X 20	1.900/48.260	2.017/51.231	NO	
-Y21	1 X 21	2.000/50.800	2.117/53.771	NO	
-Y22	1 X 22	2.100/53.340	2.217/56.311	NO	
-Y23	1 X 23	2.200/55.880	2.317/58.851	NO	
-Y24	1 X 24	2.300/58.420	2.417/61.391	NO	
↓ -Y25	1 X 25	2.400/60.960	2.517/63.931	NO	
68402-Y26	1 X 26	2.500/63.50	2.617/66.47	NO	
68402-Y26U	1 X 26	2.500/63.50	2.617/66.47	NO	
68402-Y06P	1 X 6	.500/12.700	.617/15.671	YES	↓
68402-Y27-Y50	- - -	- - - - -	- - - - -	NO - - - - -	NOT AVAILABLE

NOTE 12

NOTE 6

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family DUBOX
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH/MM scale 5:1	title DUBOX SURFACE MOUNT S/R VERTICAL CARD CONNECTOR
U				angles	linear .XX±.01/.3		
				0'±2'	linear .xxx±.005/.13 .xxxx±.0020/.051		
				dr	J. SHEREINER 11/07/90		dwg no 68402 sheet 5 of 5 size A3
				enr	M. HAHN 11/07/90		
				chr	M. HAHN 11/07/90		
				appd	M. HAHN 11/07/90		
sheet index	revision sheet						type Product Customer Drawing

form: A3