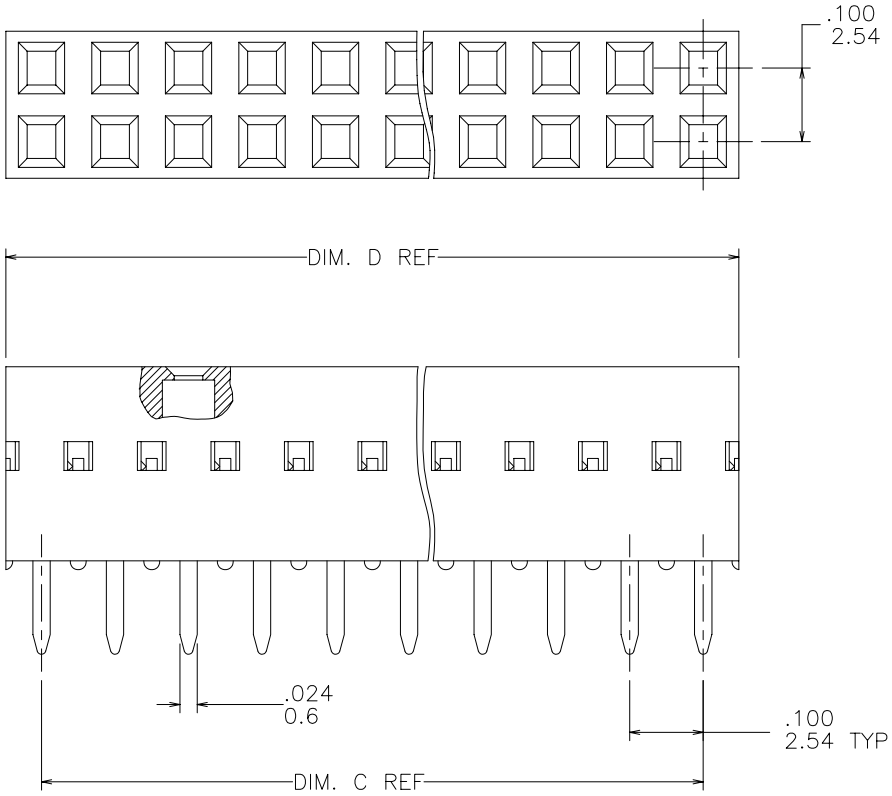
PRODUCT NO.
SEE TABLE

68683 – XXX _ LF
- LF: LEAD FREE OPTION
- _: PACKAGING OPTIONS .OMIT IF NOT REQUIRED.
- XXX: NO. OF POSITIONS PER ROW
- XX: PLATING CODE
- 68683: BASE PART NUMBER



mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family
–				DUBOX

ltr	ecn no	dr	date
K	V10122	GIP	01/08/02
L	V11677	GIP	01/22/02
M	V03-0309	HTB	04/29/03
N	V05-0463	DPU	06/28/05
P	M06-0237	MN	06/19/06
R	M06-0433	AGS	10/31/06
S	M07-0203	MHT	5/01/07

tolerances unless otherwise specified
angles: 0°±2°
linear: .XX ±.01/.3; .XXX ±.005/.13; .XXXX ±.0020/.051

dr	J. SHREINER	02/05/91
engr	M. HAHN	02/05/91
chr	M. HAHN	02/05/91
appd	M. HAHN	02/05/91

INCH/MM
scale 4:1

sheet index	revision				
	sheet	1	2	3	4
		S	S	S	S

title: DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.
dwg no 68683 sheet 1 of 4 size A3
type Product Customer Drawing

Copyright FCI
FCIconnect.com
form: A3

PDM: Rev:S STATUS:Released Printed: Dec 01, 2010

PRODUCT NO NOTE 8	PLATING CONTACT AREA	PLATING SOLDER TAIL	
68683–2XX	15u"/.38u Au MIN OVER 50u"/1.27u Ni MIN	100µ"/160µ" SN 2.54µ/4.06µ	SEE NOTE 11
68683–3XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100µ"/160µ" SN 2.54µ/4.06µ	SEE NOTE 11
68683–4XX	100µ"/160µ" SN 2.54µ/4.06µ	100µ"/160µ" SN 2.54µ/4.06µ	
68683–6XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100µ"/160µ" SN 2.54µ/4.06µ	SEE NOTE 11
68683–8XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100µ"/160µ" SN 2.54µ/4.06µ	OBSOLETE

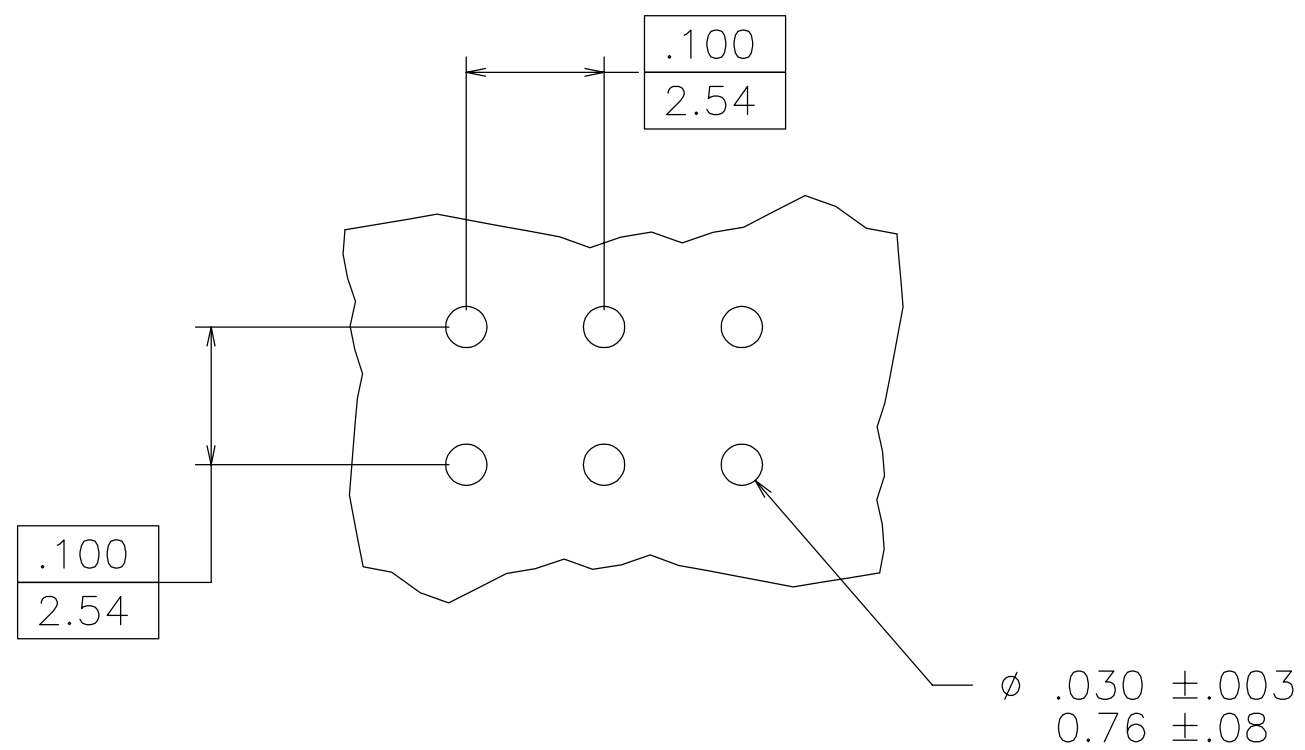


FIGURE A

NOTES:

1. MATERIAL TERMINAL: PHOSPHOR BRONZE,
2. RECOMMENDED APPLICATION DATA:
   - A. RECOMMENDED HOLE PATTERN IS SHOWN IN FIGURE A.
   - B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF GIVEN TERMINAL SPACINGS WITHIN .015/.38 DIA.
   - C. SUGGESTED MATING PIN LENGTH .210±.020/5.33±.51
   - D. RECOMMENDED PC BOARD THICKNESS: .062/1.58
3. MATERIAL HOUSING P.P.S. FILLED, COLOR BLACK, FLAME RETARDENT PER UL 94V–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. FCI, FCI FINAL PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.
5. PREPLATED, STAMPED TERMINALS.
6. PART NUMBER WITH SUFFIX "U" IS FOR SAWING PURPOSES ONLY.
7. STANDARD TUBE PACKAGE PER BUS–14–097/3.
8. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
9. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION 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 ENVOIRNMENTS".
11. 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	
S	angles 0°±2°	linear .XX ±.01/.3; .XXX ±.005/.13; .XXXX ±.0020/.051	INCH/MM scale 4:1	DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.	
	dr J. SHREINER 02/05/91			dwg no 68683	sheet 2 of 4 size A3
	engr M. HAHN 02/05/91				
	chr M. HAHN 02/05/91				
	appd M. HAHN 02/05/91			type Product Customer Drawing	
sheet index / revision sheet					

FCIconnect.com
Copyright FCI
form: A3

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	LF OPTION
68683-Y02	2 X 2	.100/2.54	.217/5.51	NOTE 8
-Y03	2 X 3	.200/5.08	.317/8.05	
-Y04	2 X 4	.300/7.62	.417/10.59	
-Y05	2 X 5	.400/10.16	.517/13.13	
-Y06	2 X 6	.500/12.70	.617/15.67	
-Y07	2 X 7	.600/15.24	.717/18.21	
-Y08	2 X 8	.700/17.78	.817/20.75	
-Y09	2 X 9	.800/20.32	.917/23.29	
-Y10	2 X 10	.900/22.86	1.017/25.83	
-Y11	2 X 11	1.000/25.40	1.117/28.37	
-Y12	2 X 12	1.100/27.94	1.217/30.91	
-Y13	2 X 13	1.200/30.48	1.317/33.45	
-Y14	2 X 14	1.300/33.02	1.417/35.99	
-Y15	2 X 15	1.400/35.56	1.517/38.53	
-Y16	2 X 16	1.500/38.10	1.617/41.07	
-Y17	2 X 17	1.600/40.64	1.717/43.61	
-Y18	2 X 18	1.700/43.18	1.817/46.15	
-Y19	2 X 19	1.800/45.72	1.917/48.69	
-Y20	2 X 20	1.900/48.26	2.017/51.23	
-Y21	2 X 21	2.000/50.80	2.117/53.77	
-Y22	2 X 22	2.100/53.34	2.217/56.31	
-Y23	2 X 23	2.200/55.88	2.317/58.85	
-Y24	2 X 24	2.300/58.42	2.417/61.39	
68683-Y25	2 X 25	2.400/60.96	2.517/63.93	

mat'l. code –	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family DUBOX
ltr: S	tolerances unless otherwise specified	angles 0°±2°	linear .XX ±.01/.3 .XXX ±.005/.13 .XXXX ±.0020/.051	INCH/MM scale 4:1
title	DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.			
dr	J. SHREINER	02/05/91		
engr	M. HAHN	02/05/91		
chr	M. HAHN	02/05/91		
appd	M. HAHN	02/05/91		
dwg no	68683	sheet 3 of 4	size A3	
type	Product Customer Drawing			

sheet index | revision sheet

FCI FCIconnect.com

Copyright FCI

form: A3

PDM: Rev:S STATUS: Released Printed: Dec 01, 2010

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	LF OPTION
68683–Y26	2 X 26	2.500/63.50	2.617/66.47	
–Y27	2 X 27	2.600/66.04	2.717/69.01	
–Y28	2 X 28	2.700/68.58	2.817/71.55	
–Y29	2 X 29	2.800/71.12	2.917/74.09	
–Y30	2 X 30	2.900/73.66	3.017/76.63	
–Y31	2 X 31	3.000/76.20	3.117/79.17	
–Y32	2 X 32	3.100/78.74	3.217/81.71	
–Y33	2 X 33	3.200/81.28	3.317/84.25	
–Y34	2 X 34	3.300/83.82	3.417/86.79	
–Y35	2 X 35	3.400/86.36	3.517/89.33	
–Y36	2 X 36	3.500/88.90	3.617/91.87	
–Y37	2 X 37	3.600/91.44	3.717/94.41	
–Y38	2 X 38	3.700/93.98	3.817/96.95	NOTE 8
–Y39	2 X 39	3.800/96.52	3.917/99.49	
–Y40	2 X 40	3.900/99.06	4.017/102.03	
–Y41	2 X 41	4.000/101.60	4.117/104.57	
–Y42	2 X 42	4.100/104.14	4.217/107.11	
–Y43	2 X 43	4.200/106.68	4.317/109.65	
–Y44	2 X 44	4.300/109.22	4.417/112.19	
–Y45	2 X 45	4.400/111.76	4.517/114.73	
–Y46	2 X 46	4.500/114.30	4.617/117.27	
–Y47	2 X 47	4.600/116.84	4.717/119.81	
–Y48	2 X 48	4.700/119.38	4.817/122.35	
–Y49	2 X 49	4.800/121.92	4.917/124.89	
68683–Y50	2 X 50	4.900/124.46	5.017/127.43	
68683–Y50U	2 X 50	4.900/124.46	5.017/127.43	SEE NOTE 6

FCIconnect.com

Copyright FCI

mat'l. code				surface	tolerance	projection	product family										
–				ISO 1302	ISO 406 ISO 1101		DUBOX										
ltr	ecn no	dr	date	tolerances unless otherwise specified			title										
S				angles	linear	.XX ±.01/.3	INCH/MM	DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.									
				0°±2°		.XXX ±.005/.13											
						.XXXX ±.0020/.051	scale 4:1										
				dr	J. SHREINER	02/05/91		dwg no								sheet 4 of 4	size
				engr	M. HAHN	02/05/91		68683									A3
				chr	M. HAHN	02/05/91		type	Product Customer Drawing								
				appd	M. HAHN	02/05/91											
sheet index	revision sheet																

form: A3

PDM: Rev:S STATUS:Released Printed: Dec 01, 2010