



**Distributor of FCI: Excellent Integrated System Limited**

Datasheet of 68683-303 - Connector Receptacle 6 Position 0.100" (2.54mm) Gold Through Hole

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)

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## **Excellent Integrated System Limited**

Stocking Distributor

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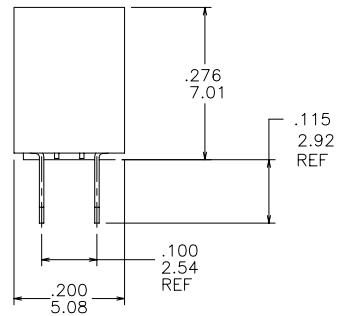
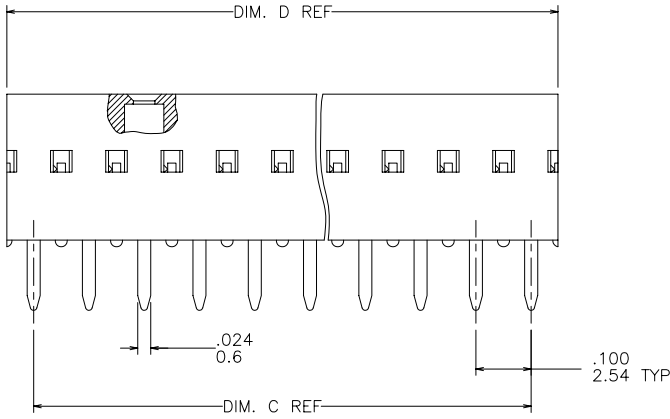
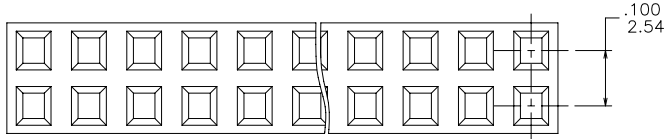
[68683-303](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

PRODUCT NO.  
SEE TABLE

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



mat'l. code		surface	tolerance	projection	product family
-		ISO 1302	ISO 406	ISO 1101	DUBOX
ltr	ecr	no	dr	date	title
K	V10122	GIP		01/08/02	DUBOX DBL. ROW VERT.
L	V11677	GIP		01/22/02	CARD CONNECTOR ASS'Y.
M	V03-0309	HTB		04/29/03	
N	V05-0463	DPU	dr	06/28/05	scale 4:1
P	M06-0237	MN	enr	06/19/06	FCJ
R	M06-0433	AGS	chr	10/31/06	dwg no 68683
S	M07-0203	MHT	appd	5/01/07	sheet 1 of 4 size A3
sheet	revision	S	S	S	type Product Customer Drawing
index	sheet	1	2	3	4

PRODUCT NO NOTE 8	PLATING CONTACT AREA	PLATING SOLDER TAIL
68683-2XX	15u"/.38u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"
68683-3XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"
68683-4XX	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"
68683-6XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"
68683-8XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" <sub>S</sub> N 2.54u"/4.06u"

SEE NOTE 11  
SEE NOTE 11  
SEE NOTE 11  
SEE NOTE 11  
OBSOLETE

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 RETARDANT 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 ENVIRONMENT".
- ⑪ PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

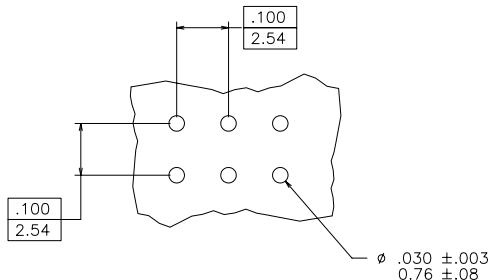


FIGURE A

mat'l. code		surface	tolerance	projection	product family
-		ISO 1302	ISO 406		DUBOX
ISO 1101		tolerances unless otherwise specified		INCH/MM	title
ltr	ecr	no	dr	date	DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.
S					dwg no 68683 sheet 2 of 4 size A3
		angles	linear	scale 4:1	type Product Customer Drawing
		0°±2'	.XX ±.01/.3		
			.XXX ±.005/.13		
			.XXXX ±.0020/.081		
		dr	J. SHREINER	02/05/91	
		enr	M. HAHN	02/05/91	
		chr	M. HAHN	02/05/91	
		appd	M. HAHN	02/05/91	
sheet	revision				
index	sheet				

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	LF OPTION
68683-Y02	2 X 2	.100/2.54	.217/5.51	
-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	

NOTE 8

mat'l. code	surface	tolerance	projection	product family
-	ISO 1302	ISO 406		DUBOX
ISO 1101	tolerances unless otherwise specified	ISO 1101		title
ltr	ecn	no	dr	date
S				
angles	linear	.XX ±.01/3	INCH/MM	DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y.
		.XXX ±.005/.13	scale 4:1	dwg no 68683 sheet 3 of 4 size A3
0'±2'		.XXXX ±.0020/.081		type Product Customer Drawing
dr	J. SHREINER	02/05/91		
enrg	M. HAHN	02/05/91		
chr	M. HAHN	02/05/91		
appd	M. HAHN	02/05/91		
sheet index	revision sheet			

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	LF OPTION
68683-Y26	2 X 26	2,500/63.50	2,617/66.47	NOTE 8
-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	
-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

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