



Distributor of FCI: Excellent Integrated System Limited

Datasheet of 68685-320 - Connector Receptacle 20 Position 0.100" (2.54mm) Gold or Gold, GXT Through Hole

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Excellent Integrated System Limited

Stocking Distributor

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[FCI](#)
[68685-320](#)

For any questions, you can email us directly:

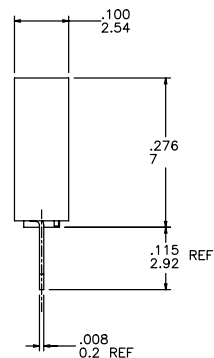
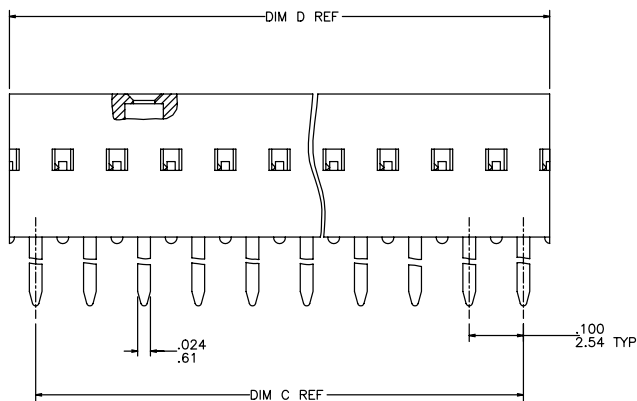
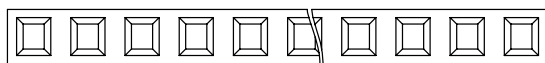
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PRODUCT NO.
SEE TABLE

68685 - 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
tolerances unless otherwise specified				
linear	linear	linear	linear	
W N-005263 SH 2011-8-22	XX ±.01/.13	XX ±.005/.13	XX ±.0020/.051	title
P Y03-0309 HTB 04/30/03	0°±2'			DUBOX SING. ROW VERT.
R Y04-0002 HTB 01/06/04				CARD CONN. ASSEMBLY
S Y05-0463 DPU 06/27/05	S. RAMP	02/25/91		dwg no
T M06-0237 MN 06/19/06	M. HAHN	02/25/91		sheet 1 of 3 size
U M06-0433 AGS 10/31/06	M. HAHN	02/25/91		68685 A3
V M07-0203 MHT 5/01/07	M. HAHN	02/25/91		type Product Customer Drawing
sheet	revision	W	W	
index	sheet	1	2	3

PDS: Rev :W STATUS: Released Printed: Aug 24, 2011

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PRODUCT NO NOTE 8	PLATING CONTACT AREA MIN.	PLATING SOLDER TAIL
68685-2XX	15u"/.38u Au OR GXT, OVER 50u"/1.27u NI	100u"/160u" SN 2.54u/4.06u
68685-3XX	30u"/.76u Au OR GXT, OVER 50u"/1.27u NI	100u"/160u" SN 2.54u/4.06u
68685-4XX	100u"/160u" SN 2.54u/4.06u	100u"/160u" SN 2.54u/4.06u
68685-5XX	50u"/1.27u Au OVER 50u"/1.27u NI	100u"/160u" SN 2.54u/4.06u
68685-6XX	30u"/.76u Au OR GXT, OVER 50u"/1.27u NI	100u"/160u" SN 2.54u/4.06u
68685-8XX	30u"/.76u Au OVER 50u"/1.27u NI	100u"/160u" SN 2.54u/4.06u

OBSOLETE

OBSOLETE

NOTES:

- MATERIAL HOUSING: PPS, 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.
- MATERIAL TERMINAL: PHOSPHOR BRONZE.
- 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
- FCI, FCI FINAL PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.
- PREPLATED STAMPED TERMINALS.
- STANDARD TUBE PACKAGE PER BUS-14-097/3.
- PART NUMBER WITH SUFFIX "U" FOR SAWING ONLY.
- ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS".

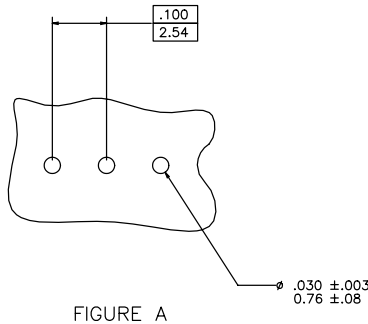


FIGURE A

mat'l. code	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection	product family DUBOX
trn ecn ngr date	tolerances unless otherwise specified	linear	INCH/MM	title DUBOX SING. ROW VERT. CARD CONN. ASSEMBLY
W	angles 0°±2°	XX ±.01/.3 XXX ±.005/.13 XXX ±.0020/.051	scale 4:1	dwg no 68685
	dr S. RAMP 02/25/91	engr M. HAHN 02/25/91	chr M. HAHN 02/25/91	app M. HAHN 02/25/91
sheet index	revision sheet			type Product Customer Drawing

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PRODUCT NUMBER	NO. OF POSITION	DIM C	DIM D	LF OPTION
68685-Y02	1 X 2	.100/2.54	.217/5.51	
-Y03	1 X 3	.200/5.08	.317/8.05	
-Y04	1 X 4	.300/7.62	.417/10.59	
-Y05	1 X 5	.400/10.16	.517/13.13	
-Y06	1 X 6	.500/12.70	.617/15.67	
-Y07	1 X 7	.600/15.24	.717/18.21	
-Y08	1 X 8	.700/17.78	.817/20.75	
-Y09	1 X 9	.800/20.32	.917/23.29	
-Y10	1 X 10	.900/22.86	1.017/25.83	
-Y11	1 X 11	1.000/25.40	1.117/28.37	
-Y12	1 X 12	1.100/27.94	1.217/30.91	
-Y13	1 X 13	1.200/30.48	1.317/33.45	
-Y14	1 X 14	1.300/33.02	1.417/35.99	
-Y15	1 X 15	1.400/35.56	1.517/38.53	
-Y16	1 X 16	1.500/38.10	1.617/41.07	
-Y17	1 X 17	1.600/40.64	1.717/43.61	
-Y18	1 X 18	1.700/43.18	1.817/46.15	
-Y19	1 X 19	1.800/45.72	1.917/48.69	
-Y20	1 X 20	1.900/48.26	2.017/51.23	
-Y21	1 X 21	2.000/50.80	2.117/53.77	
-Y22	1 X 22	2.100/53.34	2.217/56.31	
-Y23	1 X 23	2.200/55.88	2.317/58.85	
-Y24	1 X 24	2.300/58.42	2.417/61.39	
-Y25	1 X 25	2.400/60.96	2.517/63.93	
-Y26	1 X 26	2.500/63.50	2.617/66.47	
-Y27	1 X 27	2.600/66.04	2.717/69.01	
-Y28	1 X 28	2.700/68.58	2.817/71.55	
-Y29	1 X 29	2.800/71.12	2.917/74.09	
-Y30	1 X 30	2.900/73.66	3.017/76.63	
-Y31	1 X 31	3.000/76.20	3.117/79.17	
-Y32	1 X 32	3.100/78.74	3.217/81.71	
-Y33	1 X 33	3.200/81.28	3.317/84.25	
-Y34	1 X 34	3.300/83.82	3.417/86.79	
68685-Y35	1 X 35	3.400/86.36	3.517/89.33	

NOTE 8

PRODUCT NO	NO. OF POSITION	DIM C	DIM D	LF OPTION
68685-Y36	1 X 36	3.600/91.44	3.617/91.87	
-Y37	1 X 37	3.600/91.44	3.717/94.41	
-Y38	1 X 38	3.700/93.98	3.817/96.95	
-Y39	1 X 39	3.800/96.52	3.917/99.49	
-Y40	1 X 40	3.900/99.06	4.017/102.03	
-Y41	1 X 41	4.000/101.60	4.117/104.57	
-Y42	1 X 42	4.100/104.14	4.217/107.11	
-Y43	1 X 43	4.200/106.68	4.317/109.65	
-Y44	1 X 44	4.300/109.22	4.417/112.19	
-Y45	1 X 45	4.400/111.76	4.517/114.73	
-Y46	1 X 46	4.500/114.30	4.617/117.27	
-Y47	1 X 47	4.600/116.84	4.717/119.81	
-Y48	1 X 48	4.700/119.38	4.817/122.35	
-Y49	1 X 49	4.800/121.92	4.917/124.89	
68685-Y50	1 X 50	4.900/124.46	5.017/127.43	
68685-Y50U	1 X 50	4.900/124.46	5.017/127.43	

NOTE 7

mat'l. code		surface ISO 1302 ✓		tolerance ISO 406 ISO 100		projection ⊕		product family DUBOX	
title		tolerances unless otherwise specified		INCH/MM		scale 4:1		DUBOX SING. ROW VERT. CARD CONN. ASSEMBLY	
dwg no		sheet 3 of 3		size		A3		68685	
type		Product		Customer		Drawing			

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