



FCIconnect.com

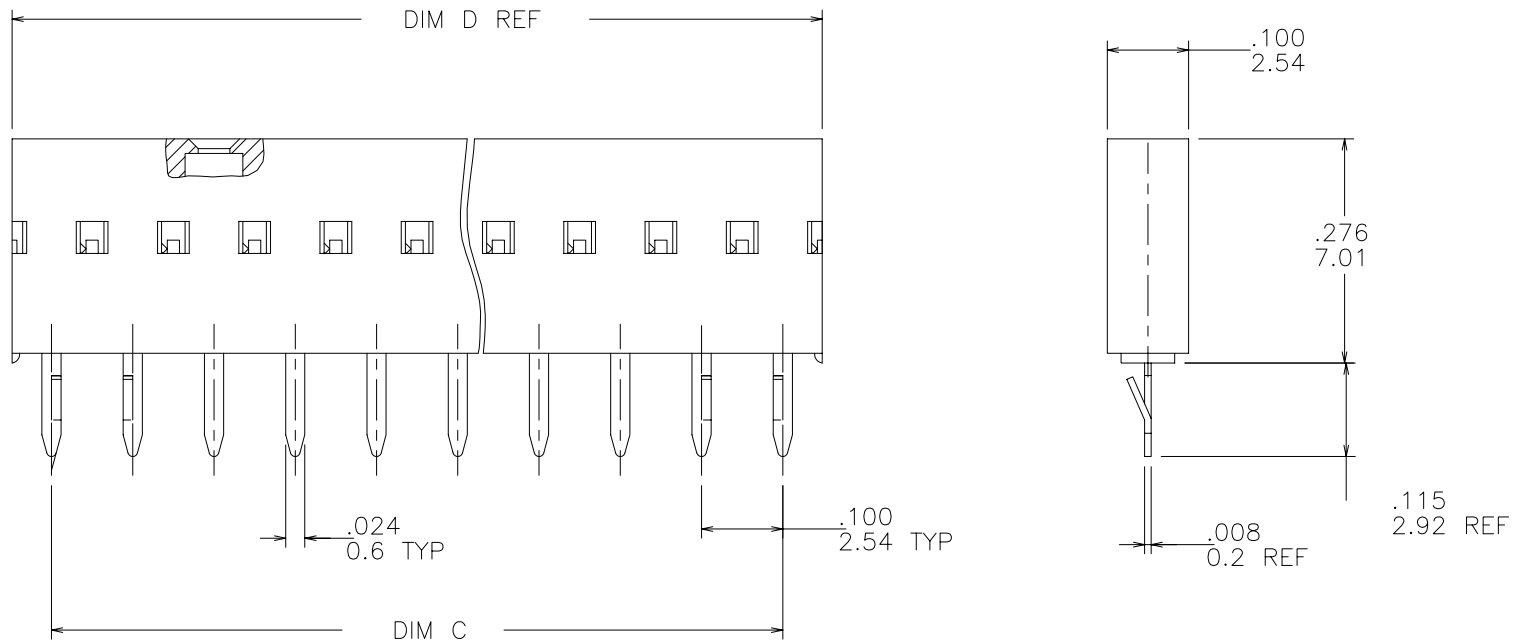
Copyright FCI

PRODUCT NO.

SEE TABLE

86653 - 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	ecp no	dr	date	tolerances unless otherwise specified		INCH/MM scale 8:1 	title DUBOX SINGLE ROW VCC ASS'Y. W/RET. LEGS dwg no 86653 sheet 1 of 5 size A3 type Product Customer Drawing
C	C23302	MRC	10/26/92	angles	linear		
D	V50511	MRC	6/30/95		.XX ±.01/.3 .XXX ±.005/.13 .XXXX ±.0020/.051		
E	V51431	MDF	1/19/96	0'±2'			
F	V03-0310	HTB	5/6/03	dr	J. SHREINER		
G	V05-0463	DPU	06/28/05	enr	M. HAHN	12/27/90	
H	M06-0237	MN	06/19/06	chr	M. HAHN	12/27/90	
J	M06-0433	AGS	10/31/06	appd	M. HAHN	12/27/90	
sheet	revision	J	J	J	J	J	
index	sheet	1	2	3	4	5	

form: A3

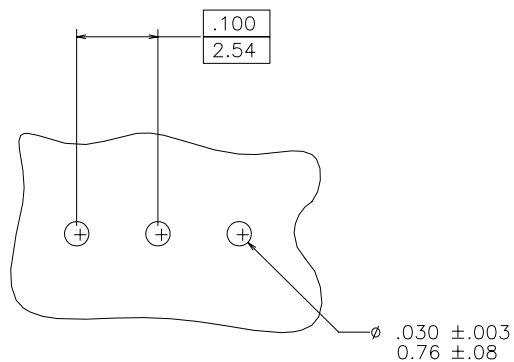


FIGURE A

NOTES:

1. MATERIAL HOUSING: THERMOPLASTIC POLYESTER
FILLED COLOR BLACK, FLAME RETARDANT PER
UL-94-VO.
PARTS WILL WITHSTAND EXPOSURES TO 260°C
PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER,
INFRA-RED REFLOW OR VAPOR PHASE REFLOW SOLDER PROCESS.
2. MATERIAL TERMINAL: PHOSPHOR BRONZE,
EXTRA HARD
3. 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. TERMINALS CAN ONLY BE USED FOR PC BOARD
WITH NON PLATED THROUGH HOLES.
 - E. RECOMMENDED PC BOARD THICKNESS:
.062/1.58.
4. MATERIAL HOUSING: P.P.S.
FILLED COLOR BLACK, FLAME RETARDANT PER
UL-94-VO.
PARTS WILL WITHSTAND EXPOSURES TO 260°C
PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER,
INFRA-RED REFLOW OR VAPOR PHASE REFLOW SOLDER PROCESS.
- ⑤ PREPLATED, STAMPED TERMINALS.
6. "FCI", FCI FINAL PART NUMBER AND DATE CODE
TO BE MARKED ON TUBE LABEL.
- ⑦ ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
8. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY
REGULATION AS DESCRIBED IN GS-22-008.
9. "THIS PRODUCT HAS 100% TIN PLATING IN THE
INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER
GROWTH IN ALL INTERCONNECT ENVIRONMENTS".

mat'l. code				surface	tolerance	projection	product family
-				ISO 1302 ✓	ISO 406 ISO 1101	⊕	DUBOX
ltr	ecn	no	dr	date	tolerances unless otherwise specified	INCH/MM	title
J					angles linear .XX ±.01/.3 .XXX ±.005/.13 .XXXX ±.0020/.051	scale 8:1	DUBOX SINGLE ROW VCC ASS'Y. W/RET. LEGS
					dr J. SHREINER 12/27/90	FCI	dwg no
					enr M. HAHN 12/27/90		sheet 2 of 5
					chr M. HAHN 12/27/90		size
					appd M. HAHN 12/27/90		A3
sheet	revision						type
index	sheet						Product Customer Drawing

1

23

4

5

6

PRODUCT NO NOTE 7	PLATING CONTACT AREA	PLATING SOLDER TAIL	MATERIAL DATA
86653-2XXLF	15u"/.38u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" 2.54u/4.06u ^{SN}	----
86653-3XXLF	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" 2.54u/4.06u ^{SN}	----
86653-4XXLF	100u"/160u" 2.54u/4.06u ^{SN}	100u"/160u" 2.54u/4.06u ^{SN}	----
86653-6XXLF	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN	100u"/160u" 2.54u/4.06u ^{SN}	NOTE 5

B

C

D

mat'l. code

litr

ecr

no

dr

date

surface

ISO 1302

tolerance

ISO 406

ISO 1101

projection

product family

DUBOX

title

DUBOX SINGLE ROW

VCC ASS'Y. W/RET. LEGS

dwg no

86653

sheet 3 of 5

size

A3

type

Product Customer Drawing

sheet index

revision

sheet

4

5

6

form: A3

1

2

3

4

5

6



FCIconnect.com

Copyright FCI



FCIconnect.com

Copyright FCI

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	HOUSING MATERIAL	LF OPTION
86653-Y02	1 X 2	.100/2.54	.217/5.51	NOTE 4	NOTE 7
↑ -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		
86653-Y25	1 X 25	2.400/60.96	2.517/63.93	NOTE 4	

mat'l. code				surface	tolerance	projection	product family
-				ISO 1302 ✓	ISO 406 ISO 1101		DUBOX
ltr	ecn	no	dr	date	tolerances unless otherwise specified	INCH/MM scale 8:1	title
J					angles linear .XX ±.01/.3		DUBOX SINGLE ROW
					.XXX ±.005/.13		VCC ASS'Y. W/RET. LEGS
					0'±2' .XXXX ±.0020/.051		dwg no sheet 4 of 5 size
				dr	J. SHREINER 12/27/90		86653 A3
				enr	M. HAHN 12/27/90		
				chr	M. HAHN 12/27/90		
				appd	M. HAHN 12/27/90		
sheet index	revision sheet						type Product Customer Drawing

form: A3



FCIconnect.com

Copyright FCI

PRODUCT NUMBER	NO. OF POSITION	C DIM	D DIM	HOUSING MATERIAL	LF OPTION
86653-Y26	1 X 26	2.500/63.50	2.617/66.47	NOTE 1	NOTE 7
-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		
-Y35	1 X 35	3.400/86.36	3.517/89.33		
-Y36	1 X 36	3.500/88.90	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		
86653-Y50	1 X 50	4.900/124.46	5.017/127.43	NOTE 1	

mat'l. code		surface	tolerance	projection	product family
-		ISO 1302 ✓	ISO 406 ISO 1101		DUBOX
ltr	ecn no	dr	date	title	
H				DUBOX SINGLE ROW	
				VCC ASS'Y. W/RET. LEGS	
				dwg no 86653 sheet 5 of 5 size A3	
				type Product Customer Drawing	
sheet index	revision sheet				