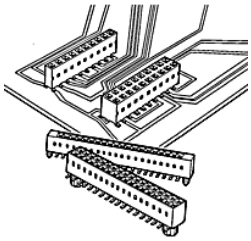
89898-310LF - DUBOX™ : 20 Position Vertical Card Connector, Surface Mount, Double row, Dual entry



FCI-Smarter Service

RoHS compatible

www.fci.com

Mating Half

- 77313-101-20LF
- 95278-101-20LF

Specifications

General	
Hold Down Style	No Locating Pegs
Number of contacts (per row)	10
Number of contacts (Total)	20
Number of rows	2
Orientation	Vertical
Packaging	Tube
Mating half	Mates with 0.64 mm (0.025 in.) Square pins.
Series Number	89898
Dimensional	
Thickness (Board)	1.6 mm (0.062 in.) or 2.36 mm (0.093 in.)
Footprint (Board)	2.54 mm x 7.2 mm (0.1 in. x 0.283 in.)
Electrical	
Current rating	3A max. per Contact/2A max. per Contact for Full Load
Resistance (Contact)	15 milli ohms Initial, 20 milli ohms After test
Resistance (Insulation)	100000 M-ohms
Voltage rating	1000V rms
Mechanical	
Insertion force	1.50N (150 gf) per Contact
Withdrawal Force	0.3N (30 gf) min. per Contact
Mounting	
Solder process	Compatible with Wave, Vapor - Phase
Physical	
Color (Housing)	Grey
Material (Contact)	Phosphor Bronze
Material (Housing)	High Temperature Thermoplastic
Plating (Contact area)	0.76 µm (30 µin.) Gold
Plating (Tail)	2.54 µm (100 µin.) Tin
Underplating (Contact)	1.27 µm (50 µin.) Nickel
Flammability rating	UL 94 V-0

Temperature (Range)	-65 °C to +125 °C

Approvals / Certifications

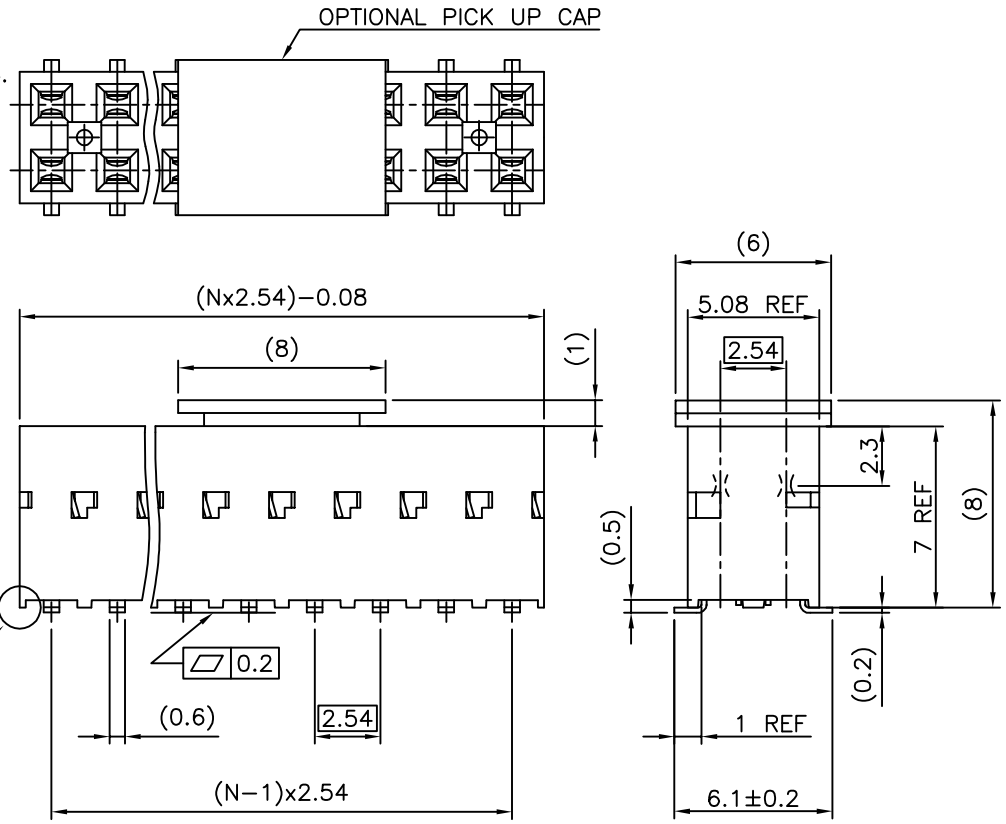
UL File Number	E66906
Approvals / Certifications	UL and CSA Approved

PRODUCT NUMBER

89898–YXXZHFLF

- WHEN NEEDED, SUFFIX LETTER "LF" INDICATES THE PRODUCT IS RoHS COMPATIBLE, SEE NOTE 6
- OPTION LETTERS, NOTE 1b, OMIT FROM PRODUCT NUMBER IF NOT APPLICABLE
  - A – PRODUCT WITH PICK UP CAP IN TAPE & REEL, SEE TA856.
  - B – PRODUCT WITH PICK UP CAP PACKED IN TUBE.
  - K – PRODUCT WITHOUT PICK UP CAP IN TAPE & REEL.
- NUMBER OF POSITIONS PER ROW: 02 TO 30. OVER THAN 30 POSITIONS ON SPECIAL REQUEST.
- PLATING CODE

3= 0.76µm GOLD ON CONTACT AREA.
3.81µm TIN–LEAD ON TAIL.
4= 5µm TIN–LEAD ON CONTACT AREA.
3.81µm TIN–LEAD ON TAIL.
WHEN SUFFIX "LF" IS REQUIRED, 2µm MIN MATTE TIN OVER 1.27 MIN Ni IS SUPPLIED INSTEAD OF SnPb.



NOTES:

1a– HOUSING & PICK UP CAP MAT'L: THERMOPLASTIC GLASS FILLED FLAME RETARDANT PER UL 94 V–O COLOR: GREY.

b– HIGH TEMPERATURE PLASTIC 30% GLASS REINFORCED NON HALOGEN FLAME RETARDED MOLDING COMPOUND COLOR BLACK.

2 – TERMINAL MATERIAL: PHOSPHOR BRONZE.

3 – PACKAGING:
2 UP TO 4 POSITIONS PRODUCT PACKED IN PLASTIC BOX.
5 UP TO 30 POSITIONS PRODUCT PACKED IN TUBE.
WHOLE 89898–304B PACKED IN TUBE.

4 – TO DETERMINE DIMENSIONS:
N = NUMBER OF POSITIONS PER ROW
EXAMPLE: 8 POS: (Nx2.54)–0.08=20.24 mm.

5 – RECOMMENDED IR PROFILE PER TA842.

6 – RoHS COMPATIBLE PRODUCT SPECIFICATIONS

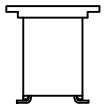
a – PLATING:
– "LF" MEANS THE PRODUCT IS LEAD–FREE, 2µm MINIMUM MATTE TIN OVER 1.27µm MINIMUM NICKEL UNDERPLATE.

b – MANUFACTURING PROCESS COMPATIBILITY
– THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 30 SECONDS MAX IN A CONVECTION INFRA–RED OR VAPOR PHASE OR REFLOW OVEN.

c – LABELING:
– MEETS PACKAGING SPECS AS PER GS–14–920

d – LEGAL STATEMENT: SEE GS–22–008

7 – END STAND–OFFS FOR 2x2 UP TO 2X5 POS
NO END STAND–OFFS FOR 2x6 UP TO 2x50 POS



CAP ORIENTATION FOR 2x2 POSITIONS ONLY

ltr	ecn no	dr	date
AE	F12–0047	JCO	12.07.16
Y	F06–0137	DLE	06.02.27
AA	F06–0204	DLE	06.06.23
AB	F09–0210	JCO	09.10.27
AC	F11–0016	JCO	11.01.31
AD	F11–0043	JCO	12.02.22

sheet	revision	AD	C
index	sheet	1	2

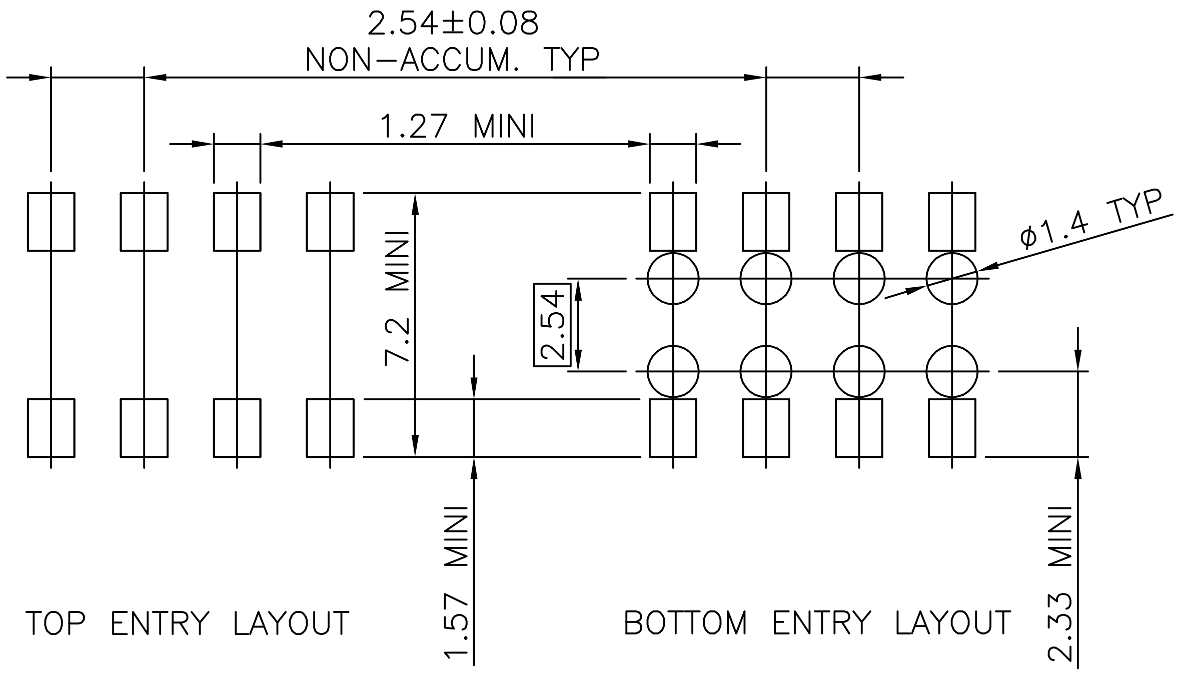
mat'l. code: SEE NOTE 1 & 2
surface: ISO 1302
tolerance: ISO 406 ISO 1101
tolerances unless otherwise specified: angles; linear .x ±0.3, .xx ±0.13, .xxx ±0.05
projection
mm
scale 5:1

dr	P.NIZZI	95.06.21
engr	JM.PHAMVAN	95.06.21
chr	P.NIZZI	95.06.21
appd	JM.P	95.06.21

product family: DUBOX
title: SMT BtB RECEPT.
dwg no: 89898
sheet 1 of 2
size: A3
type: CUSTOMER Drawing

form: A3

PDM: Rev:AE STATUS:Released Printed: Aug 02, 2012



RECOMMENDED HOLE PATTERN

mat'l. code				surface		tolerance	projection	product family
SEE NOTE 1 & 2				ISO 1302		ISO 406 ISO 1101		DUBOX
ltr	ecn no	dr	date	tolerances unless otherwise specified				title
A	F04–0347	DLE	04.11.10	angles	linear	.x ±0.3	mm	SMT BtB RECEPT.
B	F06–0204	DLE	06.06.23			.xx ±0.13		
C	F11–0016	JCO	11.01.31			.xxx ±0.05	scale 5:1	
				dr	P.NIZZI	95.06.21		dwg no 89898 sheet 2 of – size A4
				engr	JM.PHAMVAN	95.06.21		
				chr	P.NIZZI	95.06.21		
				appd	JM.P	95.06.21		type CUSTOMER Drawing
sheet index	revision sheet							

form: A4