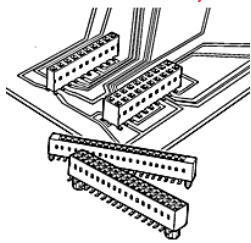


89898-311LF - DUBOX™ : 22

Position Vertical Card  
Connector, Surface Mount,  
Double row, Dual entry



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## Mating Half

▷ 77313-101-22LF

▷ 95278-101-22LF

## Specifications

General	
Hold Down Style	No Locating Pegs
Number of contacts (per row)	11
Number of contacts (Total)	22
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

<b>Temperature (Range)</b>	-65 °C to +125 °C
<b>Approvals / Certifications</b>	
<b>UL File Number</b>	E66906
<b>Approvals / Certifications</b>	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-0 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: (N x 2.54) - 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

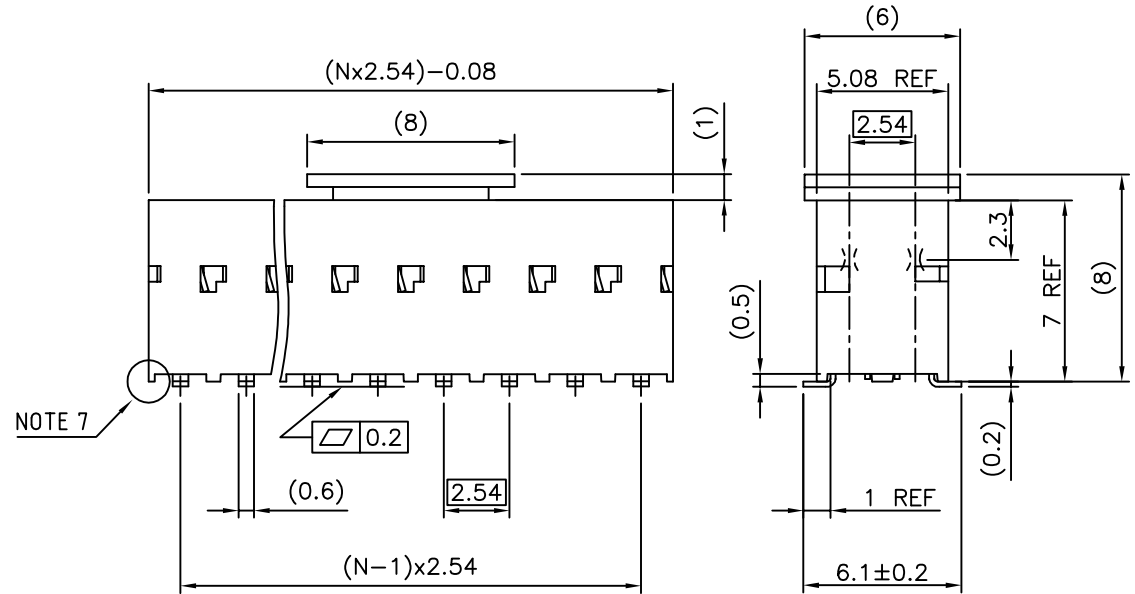
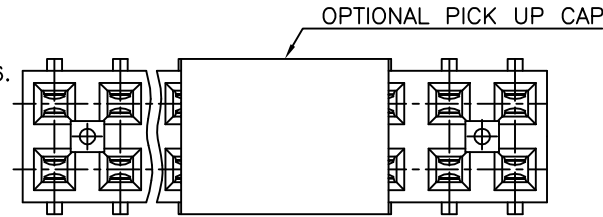
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 30 SECONDS MAX IN A CONVECTION INFRA-RED OR VAPOR PHASE OR REFLOW OVEN.

c - LABELING:

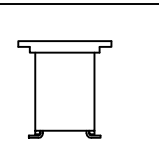
- MEETS PACKAGING SPECS AS PER GS-14-920

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



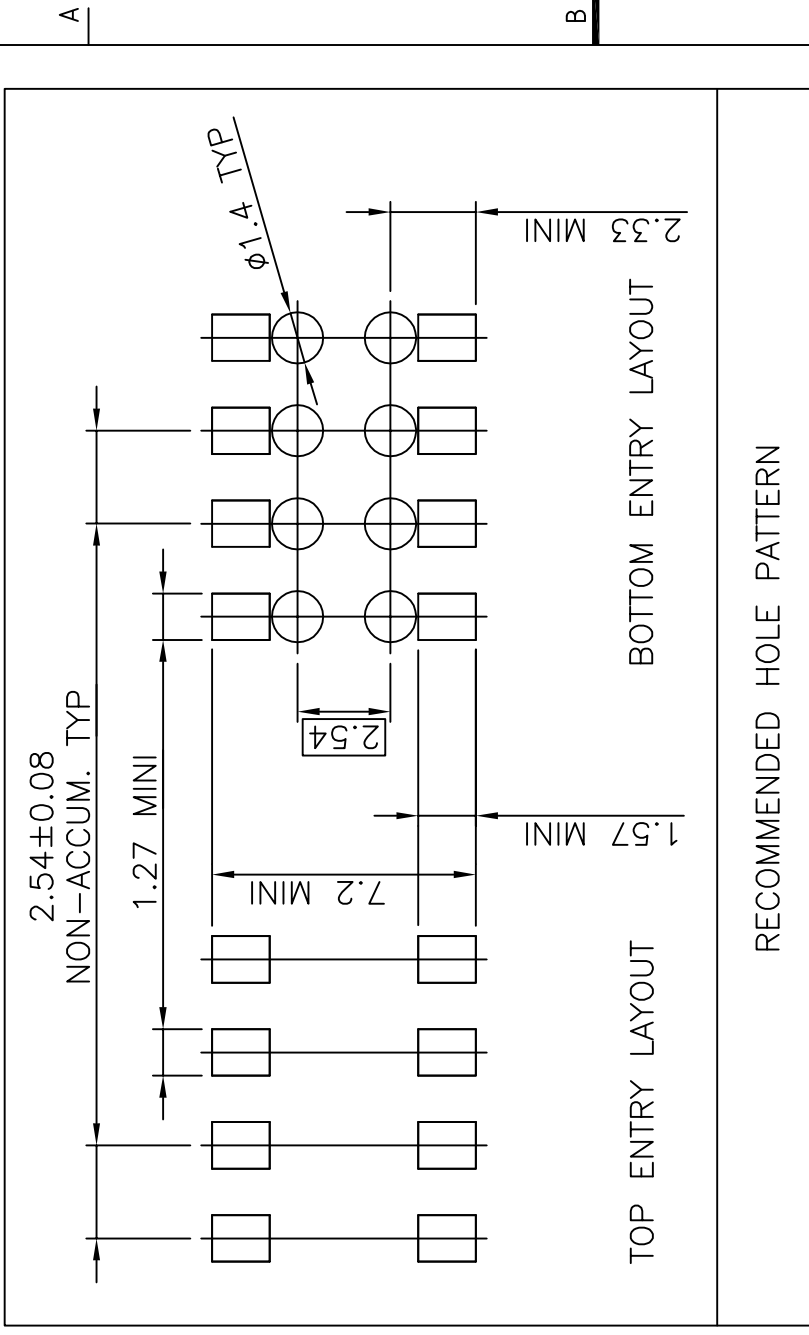
NOTE 7



CAP ORIENTATION FOR 2x2 POSITIONS ONLY

mat'l. code SEE NOTE 1 & 2		surface ISO 1302	tolerance ISO 406 ISO 1101	projection mm	product family DUBOX
ltr	ecn no	dr	date	tolerances unless otherwise specified	title
AE	F12-0047	JCO	12.07.16	angles linear .x ±0.3 .xx ±0.13 .xxx ±0.05	SMT BtB RECEPT.
Y	F06-0137	DLE	06.02.27	scale 5:1	dwg no sheet 1 of 2
AA	F06-0204	DLE	06.06.23	dr	P.NIZZI 95.06.21
AB	F09-0210	JCO	09.10.27	enfr	JM.PHAMVAN 95.06.21
AC	F11-0016	JCO	11.01.31	chr	P.NIZZI 95.06.21
AD	F11-0043	JCO	12.02.22	appd	JM.P 95.06.21
sheet	revision	AD	C		
index	sheet	1	2		





A

B

C

D

Fcconnect.com



PDM: Rev:AE

STATUS: Released

Printed: Aug 02, 2012

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