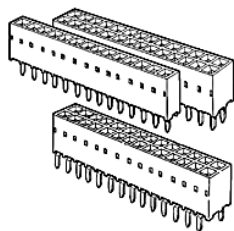


**76342-327LF - DUBOX™ : 54**  
**Position PCB Mounted**  
**Receptacle Through Mount,**  
**Top Entry, Double Row**



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## Mating Half

➤ 77313-101-54LF

## Specifications

### General

|                              |                                             |
|------------------------------|---------------------------------------------|
| Hold Down Style              | No Locating Pegs                            |
| Number of contacts (per row) | 27                                          |
| Number of contacts (Total)   | 54                                          |
| Number of rows               | 2                                           |
| Orientation                  | Vertical                                    |
| Packaging                    | Tube                                        |
| Mating half                  | Mates with 0.64 mm (0.025 in.) Square pins. |
| Series Number                | 76342                                       |

### Dimensional

|                   |                                           |
|-------------------|-------------------------------------------|
| Thickness (Board) | 1.6 mm (0.062 in.) or 2.36 mm (0.093 in.) |
| Footprint (Board) | 2.54 mm x 2.54 mm (0.1 in. x 0.1 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 Soldering Processes |
|----------------|------------------------------------------|

### Physical

|                        |                                        |
|------------------------|----------------------------------------|
| Color (Housing)        | Blue                                   |
| Material (Contact)     | Phosphor Bronze                        |
| Material (Housing)     | Glass - Filled Thermoplastic Polyester |
| Plating (Contact area) | 0.76 µm (30 µin.) Gold                 |

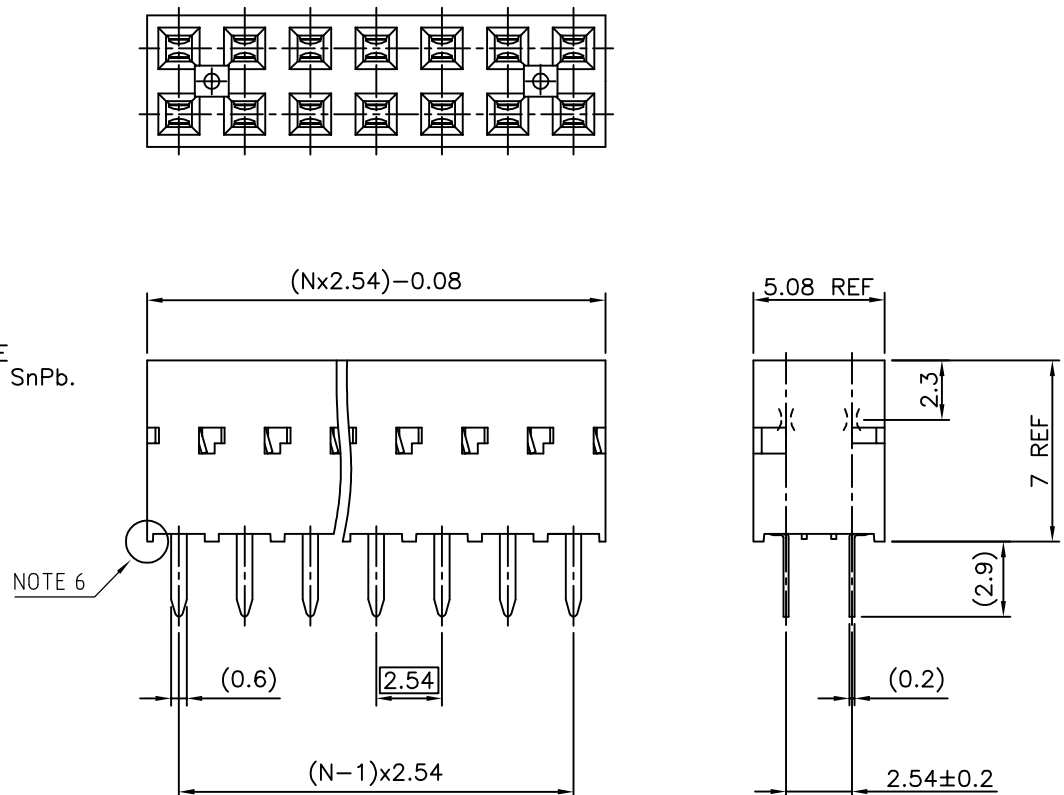
|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Plating (Tail)</b>             | 3.81µm (150 µin.) Tin-Lead |
| <b>Underplating (Contact)</b>     | 1.27µm (50 µin.) Nickel    |
| <b>Flammability rating</b>        | UL 94 V-0                  |
| <b>Temperature (Range)</b>        | -65 °C to +125 °C          |
| <b>Approvals / Certifications</b> |                            |
| <b>UL File Number</b>             | E66906                     |
| <b>CSA File Number</b>            | LR46923                    |
| <b>Approvals / Certifications</b> | UL and CSA Approved        |

PRODUCT NUMBER  
76342-YXXXLF

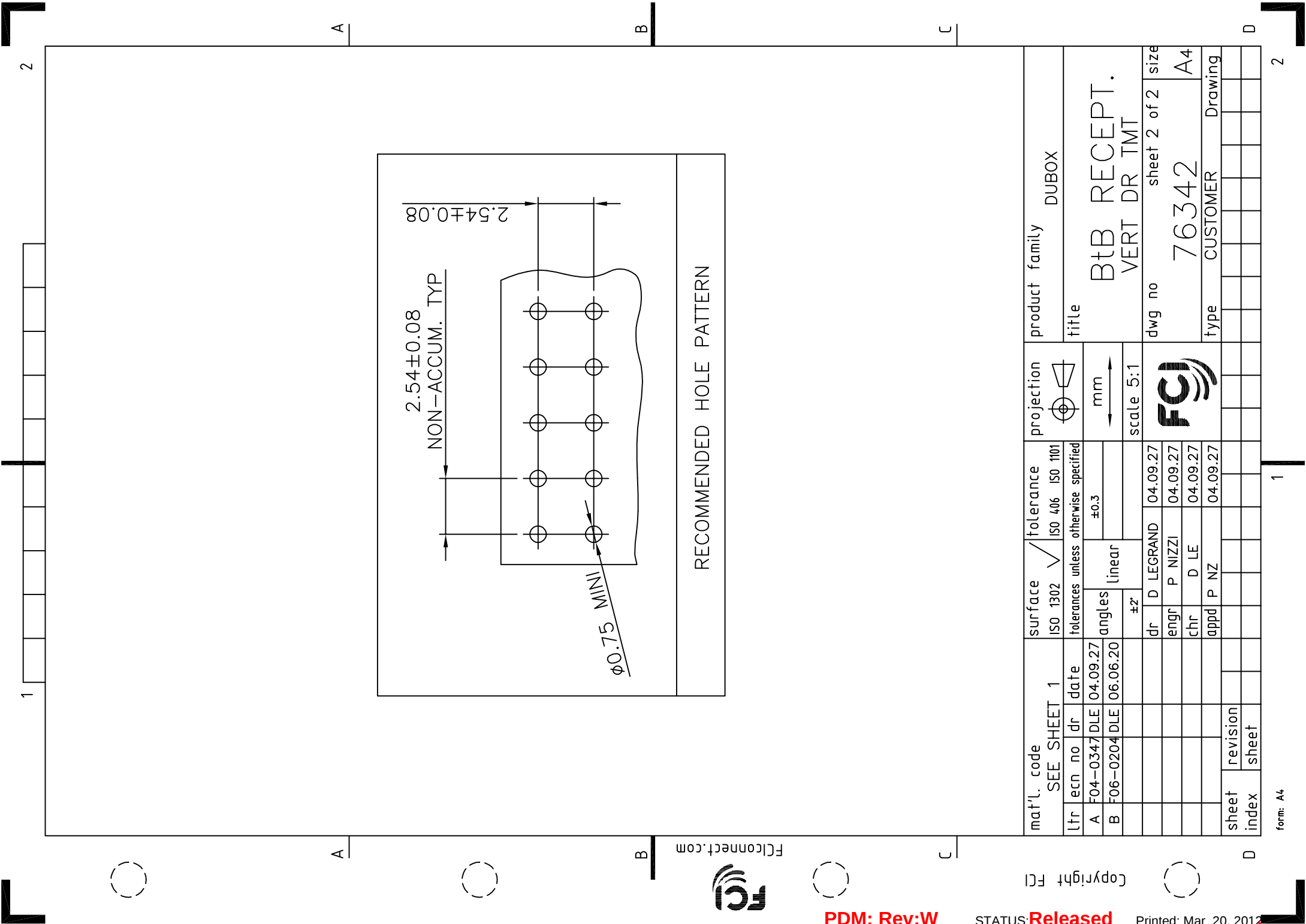
WHEN NEEDED, SUFFIX LETTER "LF"  
INDICATES THE PRODUCT IS RoHS  
COMPATIBLE, SEE NOTE 10  
OPTIONAL LETTER  
H: HIGH TEMPERATURE PRODUCT.  
C: PACKAGED IN SHORT TUBE.  
NUMBER OF POSITIONS PER ROW: 02 TO 50.  
PLATING CODE  
3= 0.76µm GOLD ON CONTACT AREA.  
3.81µm TIN-LEAD ON TAIL.  
4= 5µm TIN-LEAD 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:

- 1 - HOUSING MAT'L: THERMOPLASTIC GLASS FILLED  
FLAME RETARDANT PER UL 94 V-0  
LOW TEMPERATURE: COLOR BLUE  
HIGH TEMPERATURE: COLOR GREY.
- 2 - TERMINAL MATERIAL: PHOSPHOR BRONZE.
- 3 - 2 UP TO 4 POSITIONS PRODUCT PACKED IN PLASTIC BOX.  
5 UP TO 50 POSITIONS PRODUCT PACKED IN TUBE.
- 4 - TO DETERMINE DIMENSIONS:  
N = NUMBER OF POSITIONS PER ROW  
EXAMPLE: 8 POS:  $(N \times 2.54) - 0.08 = 20.24$  mm
- 5 - 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 ±5°C SOLDER BATH TEMPERATURE FOR  
5 SECONDS IN A WAVE SOLDER APPLICATION  
WITH A 1.6mm MIN THICK CIRCUIT BOARD.
  - c - LABELING:
    - MEETS PACKAGING SPECS AS PER GS-14-920
  - d - LEGAL STATEMENT: SEE GS-22-008
- 6 - END STAND-OFFS FOR 2x2 UP TO 2x5 POS  
NO END STAND-OFFS FOR 2x6 UP TO 2x50 POS



|                                |  |                |  |                       |  |                               |  |                                                                                                     |  |                         |  |          |  |                                                                                             |  |                            |  |              |  |         |  |
|--------------------------------|--|----------------|--|-----------------------|--|-------------------------------|--|-----------------------------------------------------------------------------------------------------|--|-------------------------|--|----------|--|---------------------------------------------------------------------------------------------|--|----------------------------|--|--------------|--|---------|--|
| mat'l. code<br>SEE NOTES 1 & 2 |  |                |  | surface<br>ISO 1302 ✓ |  | tolerance<br>ISO 406 ISO 1101 |  | projection<br> |  | product family<br>DUBOX |  |          |  |                                                                                             |  |                            |  |              |  |         |  |
| lfr                            |  | ecn no         |  | dr                    |  | date                          |  | tolerances unless otherwise specified                                                               |  |                         |  | title    |  |                                                                                             |  |                            |  |              |  |         |  |
| S                              |  | F10342         |  | DLE                   |  | 01.06.12                      |  | angles                                                                                              |  | linear                  |  | ±0.3     |  | mm<br> |  | BtB RECEPT.<br>VERT DR TMT |  |              |  |         |  |
| T                              |  | F04-0347       |  | DLE                   |  | 04.09.27                      |  | ±2'                                                                                                 |  |                         |  |          |  |                                                                                             |  |                            |  |              |  |         |  |
| U                              |  | F06-0137       |  | DLE                   |  | 06.02.27                      |  |                                                                                                     |  |                         |  |          |  |                                                                                             |  |                            |  |              |  |         |  |
| V                              |  | F06-0204       |  | DLE                   |  | 06.06.20                      |  | dr                                                                                                  |  | D LEGRAND               |  | 04.09.27 |  | scale 5:1                                                                                   |  | dwg no                     |  | sheet 1 of 2 |  | size    |  |
| W                              |  | F11-0043       |  | JCO                   |  | 12.02.22                      |  | engr                                                                                                |  | P NIZZI                 |  | 04.09.27 |  |        |  | 76342                      |  | A3           |  |         |  |
|                                |  |                |  |                       |  |                               |  | chr                                                                                                 |  | D LEGRAND               |  | 04.09.27 |  |                                                                                             |  |                            |  |              |  |         |  |
| R                              |  | F10110         |  | GCO                   |  | 01.01.16                      |  | appd                                                                                                |  | P NZ                    |  | 04.09.27 |  |                                                                                             |  |                            |  |              |  |         |  |
| sheet index                    |  | revision sheet |  | W                     |  | B                             |  |                                                                                                     |  |                         |  |          |  |                                                                                             |  | type                       |  | CUSTOMER     |  | Drawing |  |
|                                |  |                |  | 1                     |  | 2                             |  |                                                                                                     |  |                         |  |          |  |                                                                                             |  |                            |  |              |  |         |  |



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STATUS: Released

Printed: Mar 20, 2012

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|             |  |              |  |          |  |                                       |  |            |  |                |  |
|-------------|--|--------------|--|----------|--|---------------------------------------|--|------------|--|----------------|--|
| mat'l. code |  | SEE SHEET 1  |  | surface  |  | tolerance                             |  | projection |  | product family |  |
| lfr         |  | ecn no       |  | ISO 1302 |  | ISO 406                               |  |            |  | DUBOX          |  |
| A           |  | F04-0347 DLE |  | date     |  | tolerances unless otherwise specified |  | mm         |  | title          |  |
| B           |  | F06-0204 DLE |  | 04.09.27 |  | ±0.3                                  |  | scale 5:1  |  | BtB RECEPT.    |  |
|             |  |              |  | 06.06.20 |  | linear                                |  |            |  | VERT DR TMT    |  |
|             |  |              |  |          |  | angles                                |  |            |  | dwg no         |  |
|             |  |              |  |          |  | ±2°                                   |  |            |  | 76342          |  |
|             |  |              |  |          |  | dr                                    |  |            |  | sheet 2 of 2   |  |
|             |  |              |  |          |  | D LEGRAND                             |  |            |  | type           |  |
|             |  |              |  |          |  | engr P NIZZI                          |  |            |  | CUSTOMER       |  |
|             |  |              |  |          |  | chr D LE                              |  |            |  | Drawing        |  |
|             |  |              |  |          |  | appd P NZ                             |  |            |  |                |  |
| sheet       |  | revision     |  |          |  |                                       |  |            |  |                |  |
| index       |  | sheet        |  |          |  |                                       |  |            |  |                |  |

form: A4