



# THE DATASHEET OF 163A14519X

6

5

4

3

2

1

used for: D-SUB

H

H

G

G

F

F

E

E

D

D

C

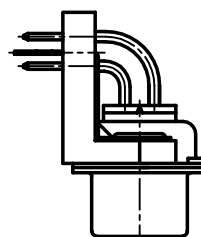
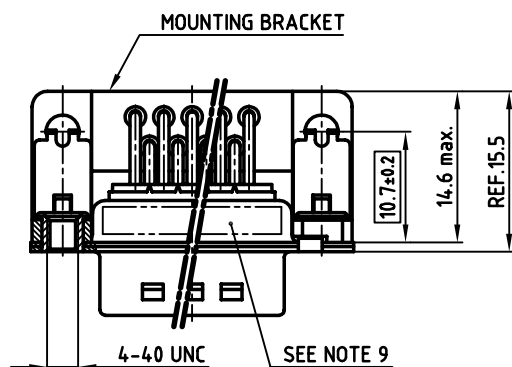
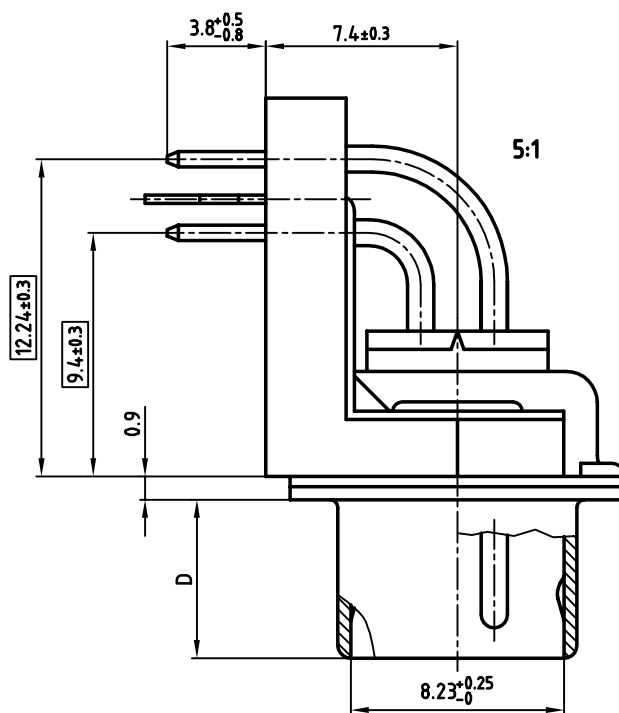
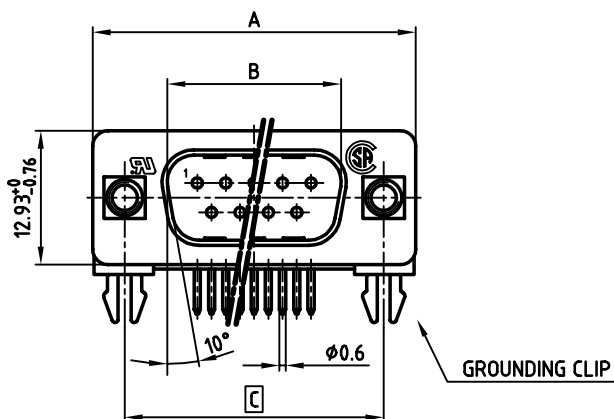
C

B

B

A

A



## NOTES:

- METALSHELLS: STEEL; min. 320μ" TIN
- INSULATORS: PBT GF UL 94 V-0, BLACK
- CONTACTS: COPPER ALLOY  
PLATING: min. 8μ" HARD GOLD OVER min. 50μ" NICKEL
- MOUNTING BRACKET: PBT GF UL 94 V-0, BLACK
- THREADED INSERT: COPPER ALLOY; min. 200μ" TIN over 80μ" NICKEL
- GROUNDING-CLIP: COPPER ALLOY; min. 200μ" TIN over 80μ" NICKEL  
PCB-HOLE:  $\phi 3.1 \pm 0.1$ ; PCB THICKNESS 1.6mm
- P.C.B. HOLE DRILLINGS ON SHEET 2
- MAXIMUM TORQUE VALUE FOR THREAD: 6" LBS
- CONNECTOR IS PART MARKED: PART-NO. CONEC Y/WW
- = CRITICAL DIMENSION

| POS. | A -0.76 | B +0.25 | C                                       | D -0.3 | PART NO.   |
|------|---------|---------|-----------------------------------------|--------|------------|
| 9    | 31.19   | 16.79   | 25.00 <sup>+0.12</sup> <sub>-0.13</sub> | 6.12   | 163A14489X |
| 15   | 39.52   | 25.12   | 33.30 <sup>+0.15</sup> <sub>-0.1</sub>  | 6.12   | 163A14499X |
| 25   | 53.42   | 38.84   | 47.04 <sup>±0.13</sup>                  | 5.99   | 163A14509X |
| 37   | 69.70   | 55.30   | 63.50 <sup>±0.13</sup>                  | 5.99   | 163A14519X |

|                                                           |        |
|-----------------------------------------------------------|--------|
| APPROVAL * FREIGABE * DEBLOCAGE * AUTORIZACION * APPROVAL |        |
| CUSTOMER APPROVAL DATE:                                   |        |
| NAME:                                                     | TITLE: |
| COMPANY NAME:                                             |        |
| APPROVAL * FREIGABE * DEBLOCAGE * AUTORIZACION * APPROVAL |        |

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| rev. | description | date | name |
|------|-------------|------|------|
|      |             |      |      |
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|      |             |      |      |
|      |             |      |      |
|      |             |      |      |
|      |             |      |      |
|      |             |      |      |

| tolerance |           |       |
|-----------|-----------|-------|
| 2002      | date      | name  |
| drawn     | 21.11.    | Parei |
| appd.     | 22.11.    | Kühle |
| norm      | DIN 41652 |       |
| d-old     |           |       |
|           |           |       |

|                                                 |              |
|-------------------------------------------------|--------------|
| scale:                                          | 2:1 (5:1)    |
| material:                                       | SEE NOTES    |
| title:                                          |              |
| D-SUB MALE 90°                                  |              |
| 9-37pos. 0.370inch                              |              |
| thread insert, mounting bracket, grounding clip |              |
| dwg no:                                         | AutoCAD 2000 |
| 16K1A804                                        |              |
| part no:                                        | SEE TABLE    |

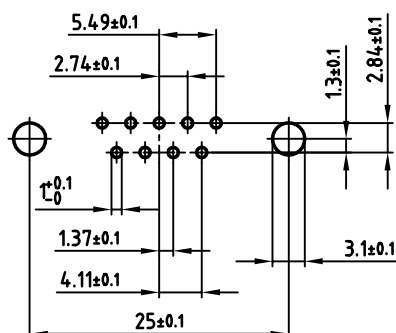
6

5

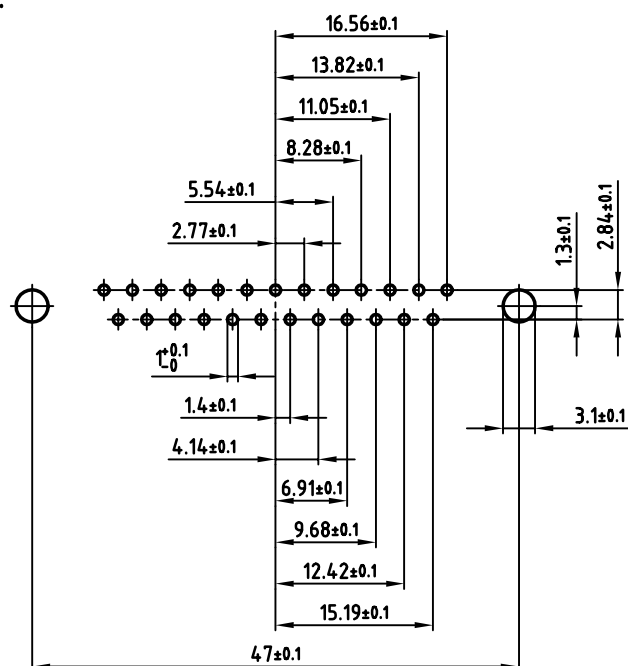
4

2

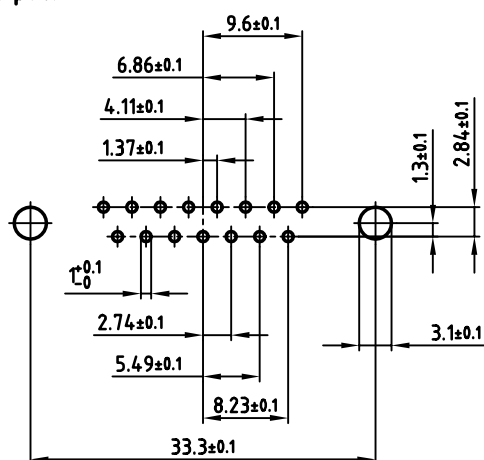
1



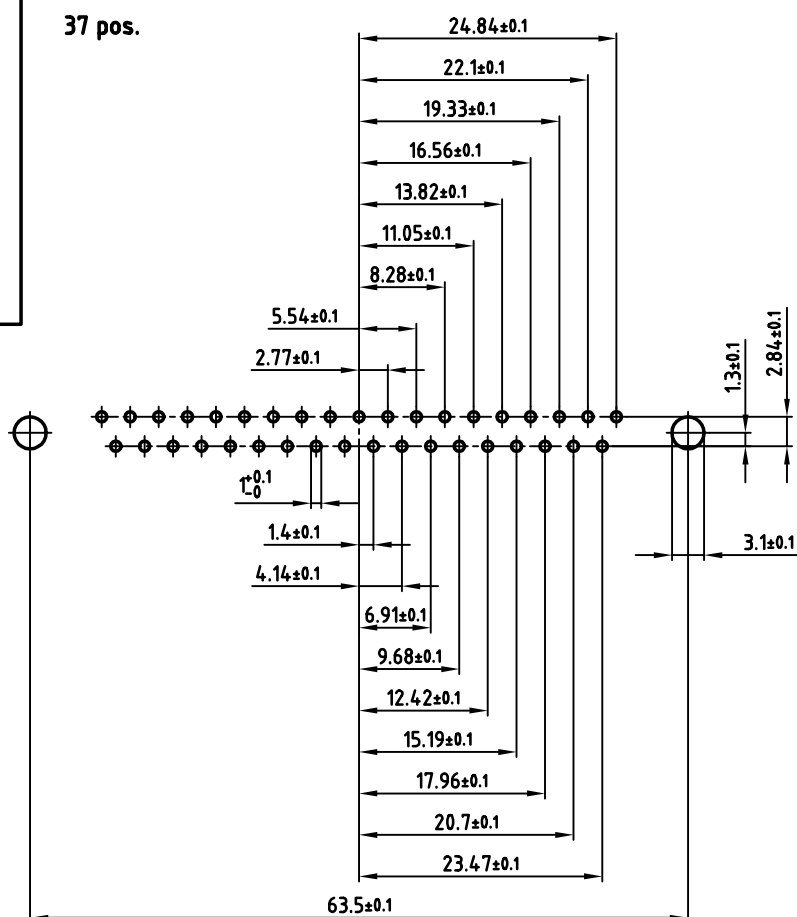
**25 pos.**



**15 pos.**



**37 pos.**



|                                                           |
|-----------------------------------------------------------|
| APPROVAL # FREIGABE # DEBLOCAGE # AUTOR/ZACION # APPROVAL |
| CUSTOMER APPROVAL DATE:                                   |
| NAME: TITLE:                                              |
| COMPANY NAME:                                             |
| APPROVAL # FREIGABE # DEBLOCAGE # AUTOR/ZACION # APPROVAL |

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|      |             |      |      |                                                                                      |           |                                                                                                     |  |
|------|-------------|------|------|--------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------|--|
|      |             |      |      | tolerance                                                                            |           | <br>dim. in mm |  |
|      |             |      |      | 2002                                                                                 | date      | name                                                                                                |  |
|      |             |      |      | drawn                                                                                | 21.11.    | Parei                                                                                               |  |
|      |             |      |      | appd.                                                                                | 22.11.    | Kühle                                                                                               |  |
|      |             |      |      | norm                                                                                 | DIN 41652 |                                                                                                     |  |
|      |             |      |      | d-old                                                                                |           |                                                                                                     |  |
|      |             |      |      |  |           |                                                                                                     |  |
|      |             |      |      |                                                                                      |           |                                                                                                     |  |
|      |             |      |      |                                                                                      |           |                                                                                                     |  |
|      |             |      |      |                                                                                      |           |                                                                                                     |  |
| rev. | description | date | name |                                                                                      |           |                                                                                                     |  |

|           |                                                                                                                    |        |
|-----------|--------------------------------------------------------------------------------------------------------------------|--------|
| scale:    | 2:1                                                                                                                |        |
| material: | SEE SHEET 1                                                                                                        |        |
| title:    | <b>P.C.B. HOLE DRILLINGS</b><br>D-SUB MALE 90° 9-37pos. 0.370inch<br>thread insert,mounting bracket,grounding clip |        |
| dwg no:   | AutoCAD 2000                                                                                                       | DIN-A  |
|           | 16K1A804                                                                                                           | 3      |
|           |                                                                                                                    | sh:2/2 |
| part no:  | SEE SHEET 1                                                                                                        |        |

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