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Stocking Distributor

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[DDMF50P](#)

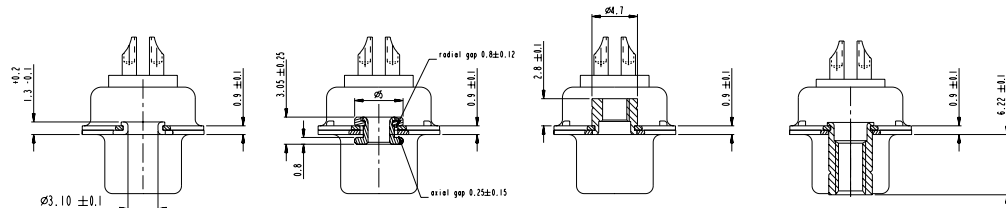
For any questions, you can email us directly:

sales@integrated-circuit.com

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|-----|------------|---|-----------|---------------|----------------|--|--------------------|------|------|--|---------|--|---------------|--|------------|--|----|--|--|--|--|--|----------|--|---------|--|----------|--|--|--|--|--|--|--|---------------------------------------|--|--|--|--|--|--|--|-----|--------|----|------|----|-----------|------------|---------|--------|-----|-----|------|---|----------|-----|------------|-----|-----------|------------|--|--|------|-----|----|---|-----------|-----|------------|-----|-----------|------------|------|------|------|------|-----|--|--|--|--|-----|-----------|------------|----------------|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| A | REFERENCE SPECIFICATIONS | | | DBML25P043N Series → Shell size: E A B C D → see sheet 2 Front accessory definition → see sheet 2 Blank : without accessory F : floating mounting L : threaded insert M3 O : threaded insert UNC 4-40 V : female screw UNC 4-40 Contact number (see sheet 2) → 9,15,25,37,50 Contacts → P Pin Plating → Blank : solder bucket 500 matings/unmatings 043 : solder bucket 500 matings/unmatings for harsh environment Obligatory for HE508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PHYSICAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | -INSULATOR MATERIAL: THERMOSET UL94V0 BRASS GOLD OVER NICKEL -ACCESSORIES: BRASS Cadmium plated, yellow passivation -SHELLS: STEEL Cadmium plated, yellow passivation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ELECTRICAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | -NOMINAL CURRENT: 7.5A -CONTACT RESISTANCE: <= 7.3 m ohms -CONTACT/CONTACT : >=1000 V -CONTACT/GROUND : >=1200 V -INSULATION RESISTANCE: >=5000 MOhms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - CLIMATIC CATEGORY: 55/155/56 TEMPERATURE RANGE -55°C TO +155°C DAMP HEAT STEADY STATE 56 DAYS SALT SPRAY 48 HOURS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | MECHANICAL CHARACTERISTICS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum - Female screw : 0.5 N.m minimum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E |  Copyright FCI. | | |  25WAY for Example | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <td colspan="4">www.fciconnect.com</td> <td colspan="2">surface</td> <td colspan="2">tolerance std</td> <td colspan="2">projection</td> <td colspan="2">mm</td> </tr> <tr> <td colspan="4"></td> <td colspan="2">150 1302</td> <td colspan="2">150 400</td> <td colspan="2">150 1100</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"></td> <td colspan="8">TOLERANCES UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>rev</td> <td>rev no</td> <td>dr</td> <td>date</td> <td>Dr</td> <td>M. PESSON</td> <td>2006/11/14</td> <td>ANGULAR</td> <td>LINEAR</td> <td>0.2</td> <td>0.3</td> <td>size</td> </tr> <tr> <td>A</td> <td>550-9114</td> <td>MPE</td> <td>2006/11/14</td> <td>Eng</td> <td>P. LEGARE</td> <td>2006/11/14</td> <td></td> <td></td> <td>0.2x</td> <td>0.1</td> <td>A2</td> </tr> <tr> <td>B</td> <td>LS07-0273</td> <td>MPE</td> <td>2007/02/20</td> <td>Eng</td> <td>P. LEGARE</td> <td>2006/11/14</td> <td>0.1x</td> <td>0.2x</td> <td>0.05</td> <td>0.05</td> <td>ECN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Eng</td> <td>P. LEGARE</td> <td>2006/11/14</td> <td colspan="2">Product family</td> <td colspan="3">Spec ref</td> </tr> <tr> <td colspan="4"></td> <td colspan="4">  SUB MALE DM HE508 series with solder bucket </td> <td colspan="4"> C01-8637-1741 CUSTOMER sheet 1 of 4 </td> </tr> </table> | | | | | www.fciconnect.com | | | | surface | | tolerance std | | projection | | mm | | | | | | 150 1302 | | 150 400 | | 150 1100 | | | | | | | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | | rev | rev no | dr | date | Dr | M. PESSON | 2006/11/14 | ANGULAR | LINEAR | 0.2 | 0.3 | size | A | 550-9114 | MPE | 2006/11/14 | Eng | P. LEGARE | 2006/11/14 | | | 0.2x | 0.1 | A2 | B | LS07-0273 | MPE | 2007/02/20 | Eng | P. LEGARE | 2006/11/14 | 0.1x | 0.2x | 0.05 | 0.05 | ECN | | | | | Eng | P. LEGARE | 2006/11/14 | Product family | | Spec ref | | | | | | |  SUB MALE DM HE508 series with solder bucket | | | | C01-8637-1741 CUSTOMER sheet 1 of 4 | | | |
| www.fciconnect.com | | | | surface | | tolerance std | | projection | | mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 150 1302 | | 150 400 | | 150 1100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| rev | rev no | dr | date | Dr | M. PESSON | 2006/11/14 | ANGULAR | LINEAR | 0.2 | 0.3 | size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 550-9114 | MPE | 2006/11/14 | Eng | P. LEGARE | 2006/11/14 | | | 0.2x | 0.1 | A2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | LS07-0273 | MPE | 2007/02/20 | Eng | P. LEGARE | 2006/11/14 | 0.1x | 0.2x | 0.05 | 0.05 | ECN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Eng | P. LEGARE | 2006/11/14 | Product family | | Spec ref | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | |  SUB MALE DM HE508 series with solder bucket | | | | C01-8637-1741 CUSTOMER sheet 1 of 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | |
|-----------------|---------------|---------------------|-------------|-------------------------|
| FRONT ACCESSORY | Blank without | F floating mounting | L insert M3 | V female screw UNC 4.40 |
|-----------------|---------------|---------------------|-------------|-------------------------|

| PART NUMBER | FRONT ACCESSORY |
|-------------|-----------------------|
| D*MxxPN | without |
| D*MFxxPN | floating mounting |
| D*MLxxPN | insert M3 |
| D*MOxxPN | insert UNC 4.40 |
| D*MVxxPN | female screw UNC 4.40 |

| shell size | Contact number |
|------------|----------------|
| # | XX |
| E | 09 |
| A | 15 |
| B | 25 |
| C | 37 |
| D | 50 |

| PART NUMBER | FRONT ACCESSORY |
|-------------|-----------------------|
| D*MxxP043N | without |
| D*MFxxP043N | floating mounting |
| D*MLxxP043N | insert M3 |
| D*MOxxP043N | insert UNC 4.40 |
| D*MVxxP043N | female screw UNC 4.40 |

CROSS REFERENCES HE508 and FCI

| HE508 P/N | FCI P/N | FRONT ACCESSORY |
|------------|----------|-------------------|
| HE508NxxAP | D*MxxPN | without |
| HE501FxxAP | D*MFxxPN | floating mounting |

SCALE: 4

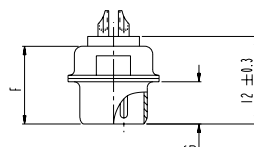
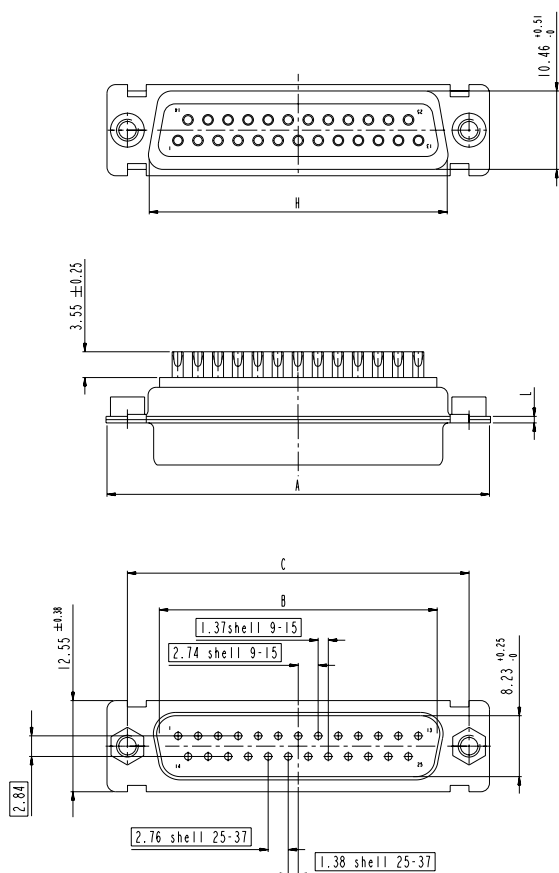
| | | | | | |
|------------------------------|----------|---------------------------------------|----------------|------------|------|
| www.fciconnect.com | | surface | tolerance std | projection | mm |
| | | 150 1302 | 150 400 | 150 1100 | |
| | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
| Dr | M PESSON | 2006/11/14 | ANGULAR | 0.2 | 0.3 |
| Eng | P LEGARE | 2006/11/14 | LINEAR | 0.25 | 0.1 |
| Ch | P LEGARE | 2006/11/14 | 0.25 | 0.25 | 0.05 |
| Appr | P LEGARE | 2006/11/14 | Product family | Spec ref | |
| FCI SUB MALE DM HE508 series | | | C01-8637-1741 | | |
| with solder bucket | | | CUSTOMER | | |
| drawing no | | | sheet 2 of 4 | | |

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DIMENSIONS FOR SHELL E, A, B, C

Dimensions are in millimeters

| Shell size | Number of contacts | A $+0.76$ -0 | B $+0.25$ -0 | C ± 0.12 | F $+0.57$ -0 | G $+0.25$ -0 | H $+0.51$ -0 | L $+0.22$ -0 |
|------------|--------------------|-------------------|-------------------|--------------|-------------------|---------------------|-------------------|-------------------|
| E | 09 | 30.43 | 16.79 | 24.99 | 10.47 | 5.9 $+0.15$ -0 | 19.02 | 0.80 |
| A | 15 | 38.76 | 25.12 | 33.32 | 10.47 | 5.9 $+0.15$ -0 | 27.25 | 0.80 |
| B | 25 | 52.65 | 38.84 | 47.04 | 10.43 | 5.7 $+0.25$ -0 | 41.02 | 0.80 |
| C | 37 | 68.94 | 55.30 | 63.50 | 10.56 | 5.7 $+0.25$ -0 | 57.45 | 0.90 |

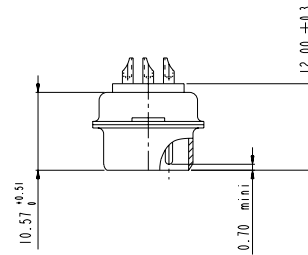
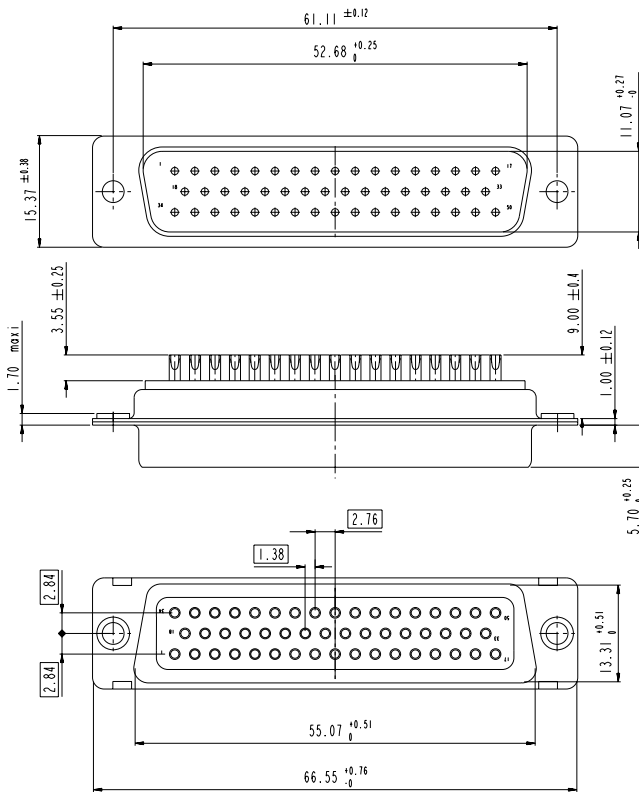


scale 3

| | | | | | | | | | |
|--------------------|-----------|---------------------------------------|----------------|---------------|---------------|--------------|------------|------------|-------|
| www.fciconnect.com | | surface | 150 1302 | ✓ | tolerance std | 150 400 | 150 1101 | projection | mm |
| | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | |
| Dr | M. PESSON | 2006/11/14 | ANGULAR | | 0.2 | 0.3 | size | A2 | Scale |
| Eng | P. LEGARE | 2006/11/14 | LINEAR | | 0.1 | 0.1 | size | A2 | 2:1 |
| Chr | P. LEGARE | 2006/11/14 | 0.1 | 0.1 | 0.1 | 0.1 | ECN | LS07-0273 | |
| Appr | P. LEGARE | 2006/11/14 | Product family | | | | Spec. ref. | | |
| FCI | | SUB MALE DM HE508 series | | C01-8637-1741 | | Rev. | | B | |
| | | with solder bucket | | CUSTOMER | | sheet 3 of 4 | | | |

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DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)



scale 3

| | | | | | | | | |
|--------------------|-----------|---------------------------------------|----------------|---------------|---------|--------------|------------|-------|
| www.fciconnect.com | | surface | 150 1302 | tolerance std | 150 400 | 150 1100 | projection | mm |
| | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | |
| Dr | M. PESSON | 2006/11/14 | ANGULAR | 0.1 | 0.3 | size | A2 | Scale |
| Eng | P. LEGARE | 2006/11/14 | LINEAR | 0.1 | 0.3 | size | A2 | 2:1 |
| Chk | P. LEGARE | 2006/11/14 | 0.1 | 0.3 | 0.5 | ECN | LS07-0273 | |
| Appr | P. LEGARE | 2006/11/14 | Product family | Spec. ref. | | | | |
| FCI | | SUB MALE DM HE508 series | | C01-8637-1741 | | Rev. | | |
| | | with solder bucket | | CUSTOMER | | sheet 4 of 4 | | |