

| 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-------------------------|----------------|--------------|-------------|-----|-----|-----|-------------|-----|-----|-----|-------------|-----|-----|------|-------------|-----|------|------|-------------|-----|------|------|-------------|-----|------|------|-------------|-----|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|------|--------------|---|--|----------|--|------------|--|----------|--|----------|-----|--|---|-----------|------------|-----------|-----|--|--|----|----------------|-----|--|----|-----------|------------|----------------|---------|---------|-----|---------|------------|------------|-------|-----------|-----|-------------|----------|----------------|--|--|------|-----|----------|-----------|--------------|--|---------------------------------------|--|--|--|--------|-----|------|---|------|-------|---|-------|--------|---|---------|----|-----|---|--|-------|-------------------------|------|---|------------|------------|----------|--------|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>PRODUCT NUMBER</th> <th>SIZE</th> <th>DIM A</th> <th>DIM B</th> </tr> </thead> <tbody> <tr><td>90312-003LF</td><td>1x3</td><td>4.0</td><td>6.4</td></tr> <tr><td>90312-004LF</td><td>1x4</td><td>6.0</td><td>8.4</td></tr> <tr><td>90312-005LF</td><td>1x5</td><td>8.0</td><td>10.4</td></tr> <tr><td>90312-006LF</td><td>1x6</td><td>10.0</td><td>12.4</td></tr> <tr><td>90312-007LF</td><td>1x7</td><td>12.0</td><td>14.4</td></tr> <tr><td>90312-008LF</td><td>1x8</td><td>14.0</td><td>16.4</td></tr> <tr><td>90312-009LF</td><td>1x9</td><td>16.0</td><td>18.4</td></tr> <tr><td>90312-010LF</td><td>1x10</td><td>18.0</td><td>20.4</td></tr> <tr><td>90312-011LF</td><td>1x11</td><td>20.0</td><td>22.4</td></tr> <tr><td>90312-012LF</td><td>1x12</td><td>22.0</td><td>24.4</td></tr> <tr><td>90312-013LF</td><td>1x13</td><td>24.0</td><td>26.4</td></tr> <tr><td>90312-014LF</td><td>1x14</td><td>26.0</td><td>28.4</td></tr> <tr><td>90312-015LF</td><td>1x15</td><td>28.0</td><td>30.4</td></tr> <tr><td>90312-016LF</td><td>1x16</td><td>30.0</td><td>32.4</td></tr> <tr><td>90312-017LF</td><td>1x17</td><td>32.0</td><td>34.4</td></tr> </tbody> </table> <p>PRODUCT NUMBER 90312-0XXLF</p> <p>TOTAL NUMBER OF POS 03 UP TO 17</p> | PRODUCT NUMBER | SIZE | DIM A | DIM B | 90312-003LF | 1x3 | 4.0 | 6.4 | 90312-004LF | 1x4 | 6.0 | 8.4 | 90312-005LF | 1x5 | 8.0 | 10.4 | 90312-006LF | 1x6 | 10.0 | 12.4 | 90312-007LF | 1x7 | 12.0 | 14.4 | 90312-008LF | 1x8 | 14.0 | 16.4 | 90312-009LF | 1x9 | 16.0 | 18.4 | 90312-010LF | 1x10 | 18.0 | 20.4 | 90312-011LF | 1x11 | 20.0 | 22.4 | 90312-012LF | 1x12 | 22.0 | 24.4 | 90312-013LF | 1x13 | 24.0 | 26.4 | 90312-014LF | 1x14 | 26.0 | 28.4 | 90312-015LF | 1x15 | 28.0 | 30.4 | 90312-016LF | 1x16 | 30.0 | 32.4 | 90312-017LF | 1x17 | 32.0 | 34.4 | | <p>NOTES:</p> <ol style="list-style-type: none"> MATERIAL : PA66 25% GLASSFILLED, UL94V-0 COLOR BLACK. PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHERS REGULATIONS AS DESCRIBED IN GS-47-004. THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO MANUFACTURING SOLDER PROCESSES. INDICATES POS 1, WHEN MATED WITH 95000 SERIE. FOR USE WITH MINITEK CRIMP TO WIRE CONTACT 77318 (26-30AWG) OR 10044403 (22-24AWG). PRODUCT SPECIFICATION AS PER 110-036, CRIMP RECOMMENDATIONS AS PER GS-20-058 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Material</td> <td colspan="2">SEE NOTE 1</td> <td colspan="2">Spec ref</td> </tr> <tr> <td>Mat code</td> <td colspan="2">N/A</td> <td rowspan="3" style="text-align: center;">✓</td> <td>tolerance</td> <td>projection</td> </tr> <tr> <td>Heattreat</td> <td colspan="2">N/A</td> <td rowspan="2" style="text-align: center;"> </td> <td rowspan="2" style="text-align: center;">MM</td> </tr> <tr> <td>Plating/Finish</td> <td colspan="2">N/A</td> </tr> <tr> <td>Dr</td> <td>D.WHITING</td> <td>1991-02-15</td> <td>Product family</td> <td>MINITEK</td> <td>size A3</td> </tr> <tr> <td>Eng</td> <td>S.OLSON</td> <td>1991-02-15</td> <td>Model Name</td> <td>90312</td> <td>Scale 8:1</td> </tr> <tr> <td>Chr</td> <td>J.COMPAGNON</td> <td>11-04-04</td> <td>Model Revision</td> <td></td> <td></td> </tr> <tr> <td>Appr</td> <td>JCO</td> <td>11-12-01</td> <td>REL Level</td> <td>proi_release</td> <td></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">TOLERANCES UNLESS OTHERWISE SPECIFIED</th> </tr> </thead> <tbody> <tr> <td rowspan="3">LINEAR</td> <td>0.X</td> <td>±0.3</td> <td>-</td> </tr> <tr> <td>0.XX</td> <td>±0.13</td> <td>-</td> </tr> <tr> <td>0.XXX</td> <td>±0.050</td> <td>-</td> </tr> <tr> <td>ANGULAR</td> <td>0°</td> <td>±2°</td> <td>-</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="text-align: center;"> </td> <td>Title</td> <td>MINITEK CTW HSG.SGL ROW</td> <td>Rev.</td> <td>T</td> </tr> <tr> <td>Pro/E file</td> <td>catalog no</td> <td>CUSTOMER</td> <td>1 of 1</td> </tr> </table> | Material | | SEE NOTE 1 | | Spec ref | | Mat code | N/A | | ✓ | tolerance | projection | Heattreat | N/A | | | MM | Plating/Finish | N/A | | Dr | D.WHITING | 1991-02-15 | Product family | MINITEK | size A3 | Eng | S.OLSON | 1991-02-15 | Model Name | 90312 | Scale 8:1 | Chr | J.COMPAGNON | 11-04-04 | Model Revision | | | Appr | JCO | 11-12-01 | REL Level | proi_release | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | LINEAR | 0.X | ±0.3 | - | 0.XX | ±0.13 | - | 0.XXX | ±0.050 | - | ANGULAR | 0° | ±2° | - | | Title | MINITEK CTW HSG.SGL ROW | Rev. | T | Pro/E file | catalog no | CUSTOMER | 1 of 1 |
| PRODUCT NUMBER | SIZE | DIM A | DIM B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-003LF | 1x3 | 4.0 | 6.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-004LF | 1x4 | 6.0 | 8.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-005LF | 1x5 | 8.0 | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-006LF | 1x6 | 10.0 | 12.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-007LF | 1x7 | 12.0 | 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-008LF | 1x8 | 14.0 | 16.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-009LF | 1x9 | 16.0 | 18.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-010LF | 1x10 | 18.0 | 20.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-011LF | 1x11 | 20.0 | 22.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-012LF | 1x12 | 22.0 | 24.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-013LF | 1x13 | 24.0 | 26.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-014LF | 1x14 | 26.0 | 28.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-015LF | 1x15 | 28.0 | 30.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-016LF | 1x16 | 30.0 | 32.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90312-017LF | 1x17 | 32.0 | 34.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | | SEE NOTE 1 | | Spec ref | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mat code | N/A | | ✓ | tolerance | projection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heattreat | N/A | | | | MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plating/Finish | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr | D.WHITING | 1991-02-15 | Product family | MINITEK | size A3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eng | S.OLSON | 1991-02-15 | Model Name | 90312 | Scale 8:1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chr | J.COMPAGNON | 11-04-04 | Model Revision | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appr | JCO | 11-12-01 | REL Level | proi_release | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEAR | 0.X | ±0.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.XX | ±0.13 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.XXX | ±0.050 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANGULAR | 0° | ±2° | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Title | MINITEK CTW HSG.SGL ROW | Rev. | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pro/E file | catalog no | CUSTOMER | 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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