

6.2.3 For printed Circuit Board

| CONNECTORS,<br>ELECTRICAL, REMOVABLE CONTACTS, CRIMP WIRE-WRAP<br>SOLDER AND SAVER, PRINTED CIRCUIT BOARD,<br>BASED ON TYPE HE 801                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                       |                          | 99Q                           |
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| Procurement<br>Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Manufacturer                                                            | Nature of<br>Approval | Supervising<br>Authority | Initial Qualification<br>Date |
| Generic<br>ESCC 3401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Smiths<br>Interconnect<br>Hypertac Saint-<br>Aubin-Lès-Elbeuf<br>France | Qualification         | CNES                     | Nov 1982                      |
| Detail ESCC<br>3401/016<br>3401/017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                         | Remarks               |                          |                               |
| <p>Qualified range:</p> <p>All Variants are qualified.</p> <p>Shell specifications and sizes: 3401/016</p> <p>Contacts:           3401/017 Crimp wire-wrap solder and savers, 1 to 22 and 64 to 70</p> <p>                          2 rows: 17, 29, 41, 53, 65, 72, 84, 96, 120 contacts</p> <p>                          3 rows: 62, 80, 98, 160 contacts</p> <p>                          Ratings: 5 A (1 contact AWG 22)</p> <p>                                  1.5 A (&gt;31 contacts, AWG 22)</p> <p>Operating Temperature Range (°C): -55 to +125</p> |                                                                         |                       |                          |                               |

| CONNECTORS,<br>ELECTRICAL, NON-REMOVABLE SOLDER AND WIRE-WRAP<br>CONTACTS AND SAVERS, PRINTED CIRCUIT BOARD,<br>BASED ON TYPE KMC |                                                                         |                       |                          | 149N                          |
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| Procurement<br>Specifications                                                                                                     | Manufacturer                                                            | Nature of<br>Approval | Supervising<br>Authority | Initial Qualification<br>Date |
| Generic<br>ESCC 3401<br>Detail ESCC<br>3401/039                                                                                   | Smiths<br>Interconnect<br>Hypertac Saint-<br>Aubin-Lès-Elbeuf<br>France | Qualification         | CNES                     | Mar 1987                      |
|                                                                                                                                   |                                                                         | Remarks               |                          |                               |
| Qualified range:                                                                                                                  |                                                                         |                       |                          |                               |
| Contacts: 3 rows contacts: 26, 44, 62, 80, 98, 144<br>Contact codes: 10, 30, 31, 40, 50, 51 and 91<br>Ratings: 2 A (1 contact)    |                                                                         |                       |                          |                               |
| Guiding and locking devices codes: 110, 121, 143, 201, 202, 204, 206, 703                                                         |                                                                         |                       |                          |                               |
| Operating Temperature Range (°C): -55 to +125                                                                                     |                                                                         |                       |                          |                               |

| CONNECTORS AND SAVERS, ELECTRICAL,<br>RECTANGULAR, NON-REMOVABLE,<br>PRINTED CIRCUIT BOARD,<br>BASED ON TYPE MHD                                                                                                                                          |                                                                         |                       |                          | 250J                          |
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| Procurement<br>Specifications                                                                                                                                                                                                                             | Manufacturer                                                            | Nature of<br>Approval | Supervising<br>Authority | Initial Qualification<br>Date |
| Generic<br>ESCC 3401<br>Detail ESCC<br>3401/065                                                                                                                                                                                                           | Smiths<br>Interconnect<br>Hypertac Saint-<br>Aubin-Lès-Elbeuf<br>France | Qualification         | CNES                     | Aug 1998                      |
|                                                                                                                                                                                                                                                           |                                                                         | Remarks               |                          |                               |
| Qualified range:<br><br>Contacts: 52, 100, 152, 200, 252, 300, 352 and 400<br>Codes: 10, 11, 12, 30, 31, 43, 45, 47 and 91<br><br>Guiding and Locking Devices Codes: 110, 111, 121, 124, 134 and 201<br><br>Operating Temperature Range (°C): -55 to +125 |                                                                         |                       |                          |                               |

| CONNECTORS,<br>ELECTRICAL, CRIMP CONTACTS, Z-AXIS INTERPOSER,<br>PRINTED CIRCUIT BOARD,<br>BASED ON TYPE RX                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                       |                          | 281F                          |
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| Procurement<br>Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Manufacturer                                                            | Nature of<br>Approval | Supervising<br>Authority | Initial Qualification<br>Date |
| Generic<br>ESCC 3401<br>Detail ESCC<br>3401/076                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Smiths<br>Interconnect<br>Hypertac Saint-<br>Aubin-Lès-Elbeuf<br>France | Qualification         | CNES                     | Aug 1998                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                         | Remarks               |                          |                               |
| <p>Qualified range:</p> <p>All design envelops specified in Table 1(a) of ESCC Detail Specification are qualified</p> <p>Max number of rows: 11<br/>Max number of contacts: 660</p> <p>Locking and Guiding Devices: -Through holes only<br/>-M2 studs with locking nuts and washers<br/>-Locating pins not available</p> <p>Rated current: 1A each contact</p> <p>Total contact compression range: 0.1 to 0.65 mm per contact</p> <p>Compression force: 1.6N per contact</p> <p>Torque for locking devices: 10 N-cm</p> <p>Operating Temperature Range (°C): -55 to +125</p> |                                                                         |                       |                          |                               |