# DOCUMENT CHANGE REQUEST

| | | | |
|---|---|---|---|
| DCR number 546 | Changes required for: General | Originator: Jean Laurent BOUTEAUX |
| Date: 2009/09/29 | Date sent: 2009/09/29 | Organisation: CNES |
| Status: IMPLEMENTED | | |

| | | | |
|---|---|---|---|
| Title: | Connectors, Electrical, Rectangular, Microminiature, Non-Removable Gauge, 26 PCB Pin Contacts, | | |
| Number: | 3401/081 | Issue: | 1 |

Other documents affected:

3401/082-1, 3401/083-1

Page:

Page 7 , table 1(a)

Paragraph:

Page 7 , table 1(a)

Original wording:

Proposed wording:

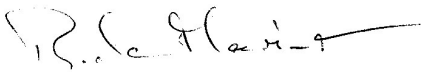
3401/083 (see file attached)

-for variant 02 & 04 engagement force "0,80N" replaced by "1,667N"

3401/081 & 3401/082
-modification of the mating and unmating forces max (see files attached, new values in "red")

Justification:

Take into account the peak of the insertion force of the sockets contacts

| |
|---|
| Attachments: |
| spe3401-081microComp-September-21-2009-page7.pdf, spe3401-083microComp-SEPTEMBER-21-2009-page-7.pdf, spe3401-082microComp-September-21-2009-page-7.pdf, null |
| Modifications: |
| N/A |
| Approval signature: |
|  |
| Date signed: |
| 2009-09-29 |

## TABLE 1(a) – TYPE VARIANTS

| CONTACT SIZE | SHELL SIZE (2) | MAX. WEIGHT (g) (1) | | | | MATING FORCE (N. max) | UNMATING FORCE | |
|---|---|---|---|---|---|---|---|---|
| | | VARIANT 01 | | VARIANT 02 | | | N. min | N. max |
| | | Male | Female | Male | Female | | | |
| #26 | A | 1.05 | 1.0 | 1.35 | 1.45 | **11.90** | 0.95 | **11.90** |
| | B | 1.35 | 1.25 | 1.75 | 1.80 | **18.70** | 1.50 | **18.70** |
| | C | 1.60 | 1.45 | 2.15 | 2.20 | **22.10** | 1.80 | **22.10** |
| | D | 1.80 | 1.65 | 2.35 | 2.40 | **28.90** | 2.35 | **28.90** |
| | E | 2.10 | 1.88 | 2.70 | 2.69 | **35.70** | 2.90 | **35.70** |
| | F | 2.35 | 2.10 | 2.95 | 2.90 | **42.50** | 3.50 | **42.50** |
| | G | 2.50 | 2.20 | 3.15 | 3.05 | **56.10** | 4.60 | **56.10** |
| | H | 3.44 | 2.95 | 4.20 | 4.10 | **86.70** | 7.10 | **86.70** |
| | J | 6.10 | 4.75 | 7.30 | 6.45 | **178.80** | 14.50 | **178.80** |

**NOTES**

1. Without contacts but see Para. 4.5.4.9. See ESCC Detail specification No. 3401/083 for contact weights.
2. See Figure 2.

## TABLE 1(b) – MAXIMUM RATINGS

| No. | CHARACTERISTICS | SYMBOL | MAXIMUM RATING | | UNIT |
|---|---|---|---|---|---|
| | | | MIN. | MAX. | |
| 1 | Working Voltage (Sea Level) -Gauge 26 ContactsVariant 01 and Contacts Variant 02 | $U_R$ | | 150 | Vms |
| 2 | Operating Temperature Range | $T_{op}$ | -55 | +125 | ℃ |
| 3 | Storage Température Range | $T_{stg}$ | -65 | +125 | ℃ |

## TABLE 1(a) – TYPE VARIANTS

| VAR-IANT | TYPE | MATING END SIZE | CRIMP BARREL SIZE | RATED CURENT | ACCEPT WIRE | MAX WEIGHT | ENGAGEMENT & SEPARATION | | TEST PIN DIA mm | | CONTACT CAPABILITY WEIGHT | | CON-TACT RETENT. FORCE MAX | CONTACT INSERT WITHDR FORCES MAX | PROBE DAMAGE | | | OVERSIZE PIN EXCL. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ENGAG. FORCES | SEPAR. FORCES | | | Pick-up (2) | Drop (3) | | | MO-MENT | PROBE DIA mm | | FORCE MAX | TEST PIN DIA mm | |
| | | | | A | AWG | g | N(1) | N(1) | min. | max. | g | g | N | N | N.cm | min. | max. | N | min. | max. |
| 01 | Male | 26 | 26 | 2 | 26 | 0,04 | | | | | | | 15 | 13,5 | NA | | | NA | | |
| 02 | Female | | | | 28 | 0,06 | **1.667** | 0,14 | 0,495<br>0497 | 0,519<br>0,521 | 14,3 | 81,50 | 15 | 13,5 | 0,9 | 0,495 | 0,521 | 0,8 | 0,765 | 0,77 |
| 03 | Male | 26 | 24 | 2 | 24 | 0,04 | | | | | | | 15 | 13,5 | NA | | | NA | | |
| 04 | Female | | | | | 0,06 | **1.667** | 0,14 | 0,495<br>0497 | 0,519<br>0,521 | 14,3 | 81,50 | 15 | 13,5 | 0,9 | 0,495 | 0,521 | 0,8 | 0,765 | 0,77 |
| 05 | | | | | | | | | | | | | | | | | | | | |
| 06 | | | | | | | | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | | | | | | | | |

**NOTES**

1. 1st line, maximum values with maximum diameter test pin;
   2nd line, minimum values with minimum diameter test pin;
2. With minimum diameter test pin and minimum insertion depth of 3mm.
3. With maximum diameter test pin and minimum insertion depth of 3mm.

## TABLE 1(a) - RANGE OF COMPONENTS

SHELL SIZES

| CONTACT SIZE | SHELL SIZE (1) | MAX. WEIGHT (g) (2) (3) | | MATING FORCE (N. max) | UNMATING FORCE | |
|---|---|---|---|---|---|---|
| | | VARIANT 01 | VARIANT 02 | | N. min | N. max |
| | | Male | Male | | | |
| #26 | A | 1.05 | 1.35 | **11.90** | 0.95 | **11.90** |
| | B | 1.35 | 1.75 | **18.70** | 1.50 | **18.70** |
| | C | 1.60 | 2.15 | **22.10** | 1.80 | **22.10** |
| | D | 1.80 | 2.35 | **28.90** | 2.35 | **28.90** |
| | E | 2.10 | 2.70 | **35.70** | 2.90 | **35.70** |
| | F | 2.35 | 2.95 | **42.50** | 3.50 | **42.50** |
| | G | 2.50 | 3.15 | **56.10** | 4.60 | **56.10** |
| | H | 3.44 | 4.20 | **86.70** | 7.10 | **86.70** |
| | J | 6.10 | 7.30 | **178.80** | 14.50 | **178.80** |

**NOTES**

1. See Figure 2(b).
2. Weights without contacts or accessories
3. Connector weights shall be calculated from the number of contacts used.

## TABLE 1(a) - RANGE OF COMPONENTS (CONTD)

CONTACT TYPES

| CODES | | CONTACT TYPES | Weight of Contacts (g) | | | |
|---|---|---|---|---|---|---|
| | | | Variant 01 / 02 | | | |
| | | | Male | | Male | |
| PCB Contacts (0) | | | | | | |
| Tail 0.50 | Tail -- | | | | | |
| OL3 | | Straight PCB solder contact gauge 26 | 0.08 | - | - | - |
| 1AON | | Gauge 26 90°PCB solder contact (2.54mm row spacing ) | 0.090(3)<br>0.097(4)<br>0.110(5) | | | |
| 1BON | | Gauge 26 90°PCB solder contact (2.84mm row spacing ) | 0.093(3)<br>0.10(4)<br>0.12(5) | | | |
| 1(7)7N | | Gauge 26 90°PCB solder contact equipped with 90°b racket and Jackspot 2-56 (2) | (3),(4) | | | |
| 1(7)7N | | Gauge 26 90°PCB solder contact equipped with 90°b racket and Jackspot 4-40 (2)(6) | (5) | | | - |

**NOTES**

1. See Figure 2(c).
2. Weight of brackets and nuts: 3.5g.
3. Average weight for Shell Size A, B, C, D, E, F;
4. Average weight for Shell Size G, H.
5. Average weight for Shell Size J.
6. Shell Size J only.Jackpost 4-40
7. A or B applicable