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

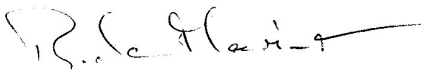
Attachments:
spe3401-081microComp-September-21-2009-page7.pdf, spe3401-083microComp-SEPTEMBER-21-2009-page-7.pdf, spe3401-082microComp-September-21-2009-page-7.pdf, null
Modifications:
N/A
Approval signature:

Date signed:
2009-09-29

TABLE 1(a) - 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) 0.097(4) 0.110(5)			
1BON		Gauge 26 90°PCB solder contact (2.84mm row spacing)	0.093(3) 0.10(4) 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

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 0497	0,519 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 0497	0,519 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.