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Dear Customer

February 7, 2007

## D6 Product Change Notification

### New tooling equipment

We have noticed that years after years there is a very strong request for the D6 switch on the market. ITT is very confident in the commercial prospect of the D6 and has decided to put in place a new line in order to replace the old tooling and to secure the long-term availability of the D6 switch.

This tooling and manufacturing equipment have now been qualified and starting in week 11, the D6 production will be manufactured with the new tooling.

Together with the tooling change, ITT has worked to improve the D6 and brought the following modifications to the D6 switch:

#### MODIFICATION/IMPROVEMENTS

- **Color:**

Improvement of the brightness of the color especially of the red color. However we have been very careful to keep a RoHS compatible material for the caps.

- **Force: 2 forces now available**

We have now 2 forces: the 1,3N (same force as before) and the 2,5N (new version with higher force).

- **Packaging: Packaging is now 2500 pieces.**

We have improved the packaging quality.

Instead of having 500 pieces in bulk in a box, the switches are now positioned in trays of 250 pieces. 10 trays are stacked together in a box totaling 2500pcs.

So we will not deliver any quantity below 2500 pieces anymore.

- **Life expectancy**

Thanks to some work done on the dome of the switch we insure a life expectancy of 250k operations for the F1 version and 100k operations for the F2 version. (before 100k operations only)

A new datasheet will be issued in week 9.

**THE OTHER CHARACTERISTICS ARE STAYING THE SAME**

Otherwise there is no further modification on the switch:

- Same or better technical characteristics.  
 A new datasheet will be issued in week 9.
- Same lay-out. The D6 out of the new tool is fully pick and replace with the switches from the old tooling.
- Same Lead free process compatibility: the D6 is further lead free process compatible (see lead free soldering process temperature profile attached).
- Same UL-listing. The material (both housing and plunger) of the D6 LFS switch is UL94HB.
- Same plating. The D6 have always had a silver plating in the terminals and this will stay so (in LFS, S stands for silver).

**BUTTON INCOMPATIBILITY**

Due to a fit issue note the following incompatibilities:

- The old buttons are not compatible with the new D6C:  
 reason there is too much clearance between D6 BTN and D6C switch
- The new buttons are not compatible with the old D6C:  
 as they are smaller they do not fit on.

However of course the new buttons are fitting on the new D6 and the old buttons are fitting on the old D6.

**DESIGNATION**

In the designation we have introduced the text F1 and F2 to designate the 2 different Forces:

F1: 1,3N

F2: 2,5N

D6	Series	Color	Force	LFS
	C: square	00 White	F1: 1,3N (std)	LFS, Rohs compatible
	R: round	10 Gray	F2: 2,5N	
	L: long	30 Yellow		
	F: flat	40 Red		
		50 Green		
		60 Blue		
		90 Black		

On the button: in order to differentiate the buttons from the old tools from the buttons from the new tools we have changed as well the designation:

BTN	D6	Color	F
		00 White 10 Gray 30 Yellow 40 Red 50 Green 60 Blue 90 Black	Button out of the new tooling (fits on switch F1 or F2)

**TRACEABILITY**

This F1 extension on the designation of the switch (and F extension on the part number of the button) guarantees 100% traceability for the customer. Please note the part number has been changed as well.

The customer can check on his order, on the acknowledgement, on the delivery note and on the packaging whether it receives the version out of the old tooling (without F1) or the version out of the new tooling (with F1 on the description).

**PRICING**

There is no pricing change, SPA keep their validity. If the Customer does not make any comment, we consider that the customer wants the F1 version (1,3N).

**IMPLEMENTATION OF NEW TOOL FOR THE D6 SWITCH**

Starting in week 12, the switches will be delivered out of the new tooling.

The old D6 part number will be discontinued will be already in week 6 blocked for any new order.

The customer service will change the part on the position that will be delivered after week 12. The version out of the old tooling (without F1) will be replaced by the version out of the new tooling (with F1).

The customer will receive with the acknowledgement the information about the new tooling.

**BUTTON EXCHANGE**

If a customer has “old” buttons that he cannot use because he has received switches out of the new tooling, customers are entitled to deliver us the “old” buttons back till 31.10.2007.

In order to avoid logistic pitfalls, the process of purchasing the new buttons is separated from the process to receive a credit note for the return of old buttons.

- the Customer places new orders of the new buttons in order to match its request.
- the Customer requests a RMA number by the Customer Service of ITT for the quantity of buttons to be returned;
- After reception by ITT of the returned buttons, the customer will receive a credit note corresponding to the returned parts from its Customer Service Rep.

**AVAILABILITY OF THE OLD BUTTON**

In order to allow customers to use their “old” D6C switches, ITT will still accept (for most colors) orders for the old D6 button till 31.10.2007. After this date the old D6 buttons (without F) will be discontinued.

**IMPLEMENTATION OF THE NEW VERSION BY THE BUTTON**

Customer Service has to check with the customer whether those buttons are for the “old” D6 switch or for the new D6 switch. If it is for the old D6 switch the order has to be placed on the old D6 button.

If this is for the new D6 switch, the order has to be placed on the new D6 button reference.

**STOCK HANDLING**

No return of D6 switch out of “old” tooling will be accepted. The return of old buttons will be accepted as described before

#### LEGAL DISCLAIMER

In all events Customers shall remain liable for:

- checking marking, date-code and inner box labelling of all ITT Cannon products,
- taking full responsibility for all stock management and product qualification in the application,
- verifying the compatibility with its soldering process,
- any change or alteration made to ITT Cannon products.

#### SAMPLES ON CHANNEL PARTNER

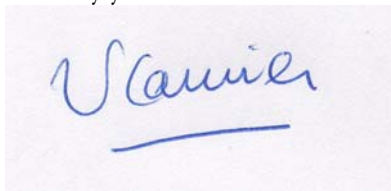
It will be possible to order samples on our Channel partner web-platform starting in March 2007.

#### SUMMARY OF PRODUCT CHANGE

Product family	D6
Type of change	<ul style="list-style-type: none"><li>• New Tooling</li><li>• Modification of dimension of D6C switch and D6 button</li></ul>
Reason for change	Old Tooling had to be replaced.
Forecast to change	12 March 2007
Date for qualification report availability	Available 12.02.2007
Description of the qualification program	Qualification by product family

Please contact us with any question

Sincerely yours.



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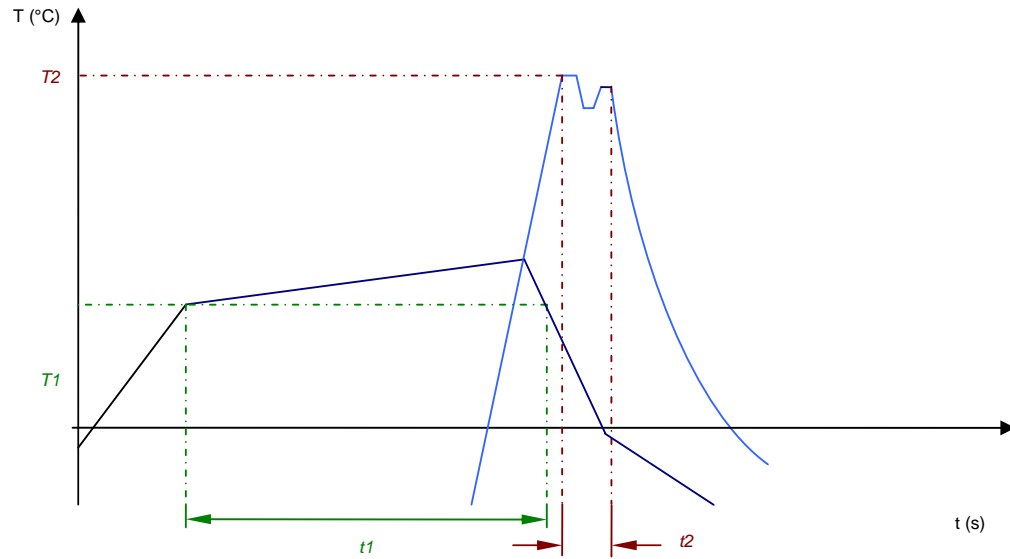


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**Annexe 1 : Leadfree-Wave soldering profile of reference**

D6 switches have been qualified with this soldering Leadfree-wave soldering process.

Thermal shock resistance



<i>Parameter</i>	<i>Reference</i>	<i>Lead free specification</i>
Preheat time exposure	t1	Between 100s and 120s
Preheat	T1	< 120°C
Time at max. body temperature	t2	10 seconds maximum
Peak board bottom temperature	T2	260°C +0/-10°C

Thermal profile done in 2 times:

- Preheat thermal profile : —————
- Soldering heat resistance: —————
- Thermal profile done 2 times on each part tested.

Old Tooling	Old Tooling	New Tooling	New Tooling
Designation ITT	Part Number	Designation ITT	Part Number D6 F1/F2
D6c00 LFS	Y41A00003FP LFS	D6c00 F1 LFS	Y41A00413FP LFS
D6c10 LFS	Y41A00009FP LFS	D6c10 F1 LFS	Y41A00419FP LFS
D6c30 LFS	Y41A00002FP LFS	D6c30 F1 LFS	Y41A00412FP LFS
D6c40 LFS	Y41A00007FP LFS	D6c40 F1 LFS	Y41A00417FP LFS
D6c50 LFS	Y41A00004FP LFS	D6c50 F1 LFS	Y41A00414FP LFS
D6c60 LFS	Y41A00008FP LFS	D6c60 F1 LFS	Y41A00418FP LFS
D6c90 LFS	Y41A00001FP LFS	D6c90 F1 LFS	Y41A00411FP LFS
D6f00 LFS	Y41A00303FP LFS	D6f00 F1 LFS	Y41A00613FP LFS
D6f90 LFS	Y41A00301FP LFS	D6f90 F1 LFS	Y41A00611FP LFS
D6l90 LFS	Y41A00221FP LFS	D6l90 F1 LFS	Y41A00711FP LFS
D6r00 LFS	Y41A00103FP LFS	D6r00 F1 LFS	Y41A00513FP LFS
D6r10 LFS	Y41A00109FP LFS	D6r10 F1 LFS	Y41A00519FP LFS
D6r30 LFS	Y41A00102FP LFS	D6r30 F1 LFS	Y41A00512FP LFS
D6r40 LFS	Y41A00107FP LFS	D6r40 F1 LFS	Y41A00517FP LFS
D6r50 LFS	Y41A00104FP LFS	D6r50 F1 LFS	Y41A00514FP LFS
D6r60 LFS	Y41A00108FP LFS	D6r60 F1 LFS	Y41A00518FP LFS
D6r90 LFS	Y41A00101FP LFS	D6r90 F1 LFS	Y41A00511FP LFS
New F2 version		D6c00 F2 LFS	Y41A00423FP LFS
New F2 version		D6c10 F2 LFS	Y41A00429FP LFS
New F2 version		D6c30 F2 LFS	Y41A00422FP LFS
New F2 version		D6c40 F2 LFS	Y41A00427FP LFS
New F2 version		D6c50 F2 LFS	Y41A00424FP LFS
New F2 version		D6c60 F2 LFS	Y41A00428FP LFS
New F2 version		D6c90 F2 LFS	Y41A00421FP LFS
New F2 version		D6f00 F2 LFS	Y41A00623FP LFS
New F2 version		D6f90 F2 LFS	Y41A00621FP LFS
New F2 version		D6l90 F2 LFS	Y41A00721FP LFS
New F2 version		D6r00 F2 LFS	Y41A00523FP LFS
New F2 version		D6r10 F2 LFS	Y41A00529FP LFS
New F2 version		D6r30 F2 LFS	Y41A00522FP LFS
New F2 version		D6r40 F2 LFS	Y41A00527FP LFS
New F2 version		D6r50 F2 LFS	Y41A00524FP LFS
New F2 version		D6r60 F2 LFS	Y41A00528FP LFS
New F2 version		D6r90 F2 LFS	Y41A00521FP LFS
BTN D6 00	Y411020030P	BTN D6 00 F	Y411036030P
BTN D6 10	Y411020090P	BTN D6 10 F	Y411036090P
BTN D6 30	Y411020020P	BTN D6 30 F	Y411036020P
BTN D6 40	Y411020070P	BTN D6 40 F	Y411036070P
BTN D6 50	Y411020040P	BTN D6 50 F	Y411036040P
BTN D6 60	Y411020080P	BTN D6 60 F	Y411036080P
BTN D6 90	Y411020010P	BTN D6 90 F	Y411036010P