	ESC	C	DC	DCUMENT	CHANGE REQUEST	
DCR number	1130 Changes required for: General			eral	Originator: Valerie Lepaludier	
Date: 2018/11/13 Date sent: 2017/11/23			2017/11/23		Organisation: Atmel Microchip	
Status: IMPLE	MENTED					
Title:	Evaluation Test Programme For Integrated Circuits: Monolithic And Multichip Microcircuits, Wire-					
Number:	2269000 Issue: 6			6		
Other documen	ts affected:		•			
Page:						
8						
Paragraph:						
3. "Terms, definitions, abbreviations, symbols and units"						
Original wording:						
Add-on Components: Capacitors mounted in and electrically connected to a flip-chip integrated circuit assembly. Other component types are not permitted.						
Proposed wording:						
Add-on Components: Capacitors and resistors mounted in and electrically connected to a flip-chip integrated circuit assembly. Other component types are not permitted.						
Justification:						
Add-on components not to be limited to capacitors. Harmonization with definition in ESCC GS 9000 issue 10 to be published						

	ESC		DCUMENT	CHANGE REQUEST			
DCR number	1130	Changes required for: Gen	eral	Originator: Valerie Lepaludier			
Date: 2018/1	Date: 2018/11/13 Date sent: 2017/11/23			Organisation: Atmel Microchip			
Status: IMPL	EMENTED						
Title:	Title: Evaluation Test Programme For Integrated Circuits: Monolithic And Multichip Microcircuits, Wire-						
Number:	2269000	Issue:	6	6			
Other documer	nts affected:						
Page:							
16							
Paragraph:							
8.3.5.2.1 "Thermal Tests for Components with Hermetic Packages" (b) (i)							
Original wording:							
 (i) Temperature Cycling All devices shall be subjected to the test defined in Chart F3 ESCC Generic Specification No. 9000 - 100 cycles instead of 10 cycles. 							
Proposed wording:							
 (i) Temperature cycling All devices shall be subjected to the test defined in Chart F4A ESCC Generic Specification No. 9000 - 1500 cycles instead of 100 for flip-chip components. 							
Justification:							
The number of cycling applicable for wire-bonded components (100 cycles) is not applicable for flip-chip componnets (1500 cycles).							

	ESC	C	DC	DCUMENT	CHANGE REQUEST	
DCR number	1130 Changes required for: General			eral	Originator: Valerie Lepaludier	
Date: 2018/11	Date: 2018/11/13 Date sent: 2017/11/23				Organisation: Atmel Microchip	
Status: IMPLEMENTED						
Title:	Evaluation Test Pr	ogramme For	Integrated Circu	its: Monolithic An	d Multichip Microcircuits, Wire-	
Number:	2269000 Issue:			6		
Other documen	ts affected:					
Page:						
15						
Paragraph:						
8.3.4.7 "Die Shear or Substrate Attach Strength or Flip-Chip Pull-Off Test"						
Original wording	g:					
(b) Procedure In accordance with Die Shear or Substrate Attach Strength or Flip-chip Pull-Off in ESCC Generic Specification No. 9000.						
Proposed wording:						
 (b) Procedure In accordance with Die Shear or Substrate Attach Strength or Flip-chip Pull-Off in ESCC Generic Specification No. 9000. NOTE: May be excluded for Flip-chip Integrated Circuit components with thermal interface material between the die and the lid/heat-spreader. 						
Justification:						
Some items of Subgroup 2C cannot be performed on flip-chip components with Thermal Interface Material (TIM) between the die and the lid. Harmonization with restrictions in ESCC GS 9000 issue 10 to be published (note 15 of chart F4A)						

	ESC		D	DCUMENT	CHANGE REQUEST	
DCR number	1130	Changes required	d for: Ger	eral	Originator: Valerie Lepaludier	
Date: 2018/11	2018/11/13 Date sent: 2017/11/23				Organisation: Atmel Microchip	
Status: IMPLEMENTED						
Title:	Evaluation Test Programme For Integrated Circuits: Monolithic And Multichip Microcircuits, Wire-					
Number:	2269000 Issue: 6					
Other documen	ts affected:	·				
Page:						
17						
Paragraph:						
8.3.5.3.2 Subgr	oup 2D(ii-b) – Therr	mal Vacuum Test" (b) (ii)			
Original wording	g:					
Thermal Vacuum All devices shall be subjected to thermal vacuum with the following conditions: • 20 cycles • Tamb = -30°C to + 70°C • pressure: 10-5Pa						
Proposed wording:						
Thermal Vacuum All devices shall be subjected to thermal vacuum with the following conditions: • 20 cycles • Tamb = -30°C to + 70°C • pressure: 10-3 Pa						
Justification:						
Current vaccum pressure is considered overly severe and not consistent with ECSS-Q-ST-70-02 (referenced in §2.2) which specifies a level of 10-3 Pa. This modification is also requested by DCR1119						

Attachments:

N/A

Modifications:

- Changes apply to the current issue of ESCC 2269000, i.e. Issue 6 dated February 2018. The proposed change to page 17 Para. 8.3.5.3.2 (Thermal Vacuum Test) has already been implemented in ESCC 2269000 Issue 6.

- The proposed change to page 15 Para. 8.3.4.7 has been rejected by the PSWG, as stated in the PSWG Chairman's Disposition of this DCR. This change shall therefore not be included in ESCC 2269000 Issue 7.

- Proposed wording (page 16 Para. 8.3.5.2.1 "(i) Temperature Cycling") is amended to "All devices shall be subjected to the test defined in Chart F3A of ESCC Generic Specification No. 9000 except that, for wire-bonded components the number of cycles shall be 100 minimum, and for flip-chip components the number of cycles shall be 1500 minimum."

- Proposed wording (page 8 Para 3 "Add-on Components") is amended as follows: "Capacitors and/or resistors mounted in and electrically connected to a flip-chip integrated circuit assembly. Other component types are not permitted."

Approval signature:

Date signed:

2018-11-13