	ESC		OCUMENT	CHANGE REQUEST				
DCR number	1672	Changes required for: G	eneral	Originator: Steve Thacker				
Date: 2024/07	//23	B Date sent: 2024/06/27		Organisation: ESCC Executive				
Status: IMPLE	EMENTED			Secretariat				
Title:	Integrated Circuits, Silicon Monolithic, Single Port Gigabit Ethernet Copper PHY with							
Number:	9405/020	Issue:	2					
Other documen	Other documents affected:							
9512/006-4, 9512/007-2, 9521/003-2, 9521/004-1								
Page:								
Various; see below & attached for details								
Paragraph:								
Various; see below & attached for details								
Original wording:								
As per currently published specs; see above								
Proposed wordi	ng:							
Amend the following 5 ESCC Detail specifications with regard to the specified radiation requirements plus several other revisions requested by supporting Manufacturer Microchip, as follows: See attached draft spec mark-ups for all change details: 								
1) Para 1.4.2 Add new note 3 to detail the radiation test for letter F [=50krad(Si)] at a level up to 100krad(Si).								
2) Para 1.7: figu	ure is replaced							
3) New Para 2.1.1.1(a): add a new deviation for internal visual inspection on internal wire separation requirements.								
4) Para 2.1.1.2	4) Para 2.1.1.2 (now 2.1.1.3): amend title to remove reference to 'Lot Validation Testing' (editorial correction)							
i.e.:	Consumption: 3 tests	cteristics from the table. s: IDDIOS, IDDMACS, IDDM	DIOS					
6) Delete Appendix A: deviation on radiation testing								
 9512/006: 1) Title page: de	elete "Radiation Har	dened" from title. (editorial c	orrection)					

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Status: IMPLEMENTED							
2) Para 1.4.1 amend component number details (for consistency)							
3) Para 1.4.2 amend note 3 to clarify the rad test details for both available rad dose levels (rad letters D & R)							
4) Para 1.7: figure is replaced							
 9512/007: 1) Title page: delete "Radiation Hardened" from title. (editorial correction)							
2) Para 1.4.2 Add new note 3 to detail the radiation te	est details for letter E [=20kra	d(Si)] at a level up to 30krad(Si).					
3) Para 1.7: figure is replaced							
4) Appendix A: deviation on radiation testing is delete	ed.						
5) Appendix A: New deviation on Chart F4A Seal test after Operating Life is added.							
 9521/003: 1) Para 1.4.2 amend note 3 to detail the radiation test for letter E [=20krad(Si)] at a level up to 30krad(Si).							
2) Delete Appendix A: deviation on radiation testing							
 9521/004: 1) Para 1.4.2 amend note 3 to detail the radiation test for letter E [=20krad(Si)] at a level up to 30krad(Si).							
2) Delete Appendix A: deviation on radiation testing	2) Delete Appendix A: deviation on radiation testing						
Justification:							
Note: This DCR is raised on behalf of Manufacturer N	/licrochip.						
 Microchip provided the following specific details:							
All specs: Para 1.4.2 & Microchip Appendix radiation requirements: to clarify the actual maximum total dose test level applied to validate the specified Total Dose Radiation Level Letter (the ESCC radiation hardness assurance Level) (Note: this change is related to the current x1.5 over-test requirement of ESCC22900 issue 5)							

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Status: IMPLEMEN	NTED		Secretariat				
9405/020 item 3): Requirement cannot be met at 100% due to the die pad small pitch, so Microchip cannot commit on this.							
9405/020 item 5): This is a correction. Drift on buffer parameters is out of our rules. Drift on timings/frequencies is out of our rules.							
Attachments:	Attachments:						
escc9512007iss_2_draft_a_in_review.docx, escc9405020iss_2_draft_a_in_review.docx, escc9521004iss2_draft_a_in_review.docx, escc9512006iss_4_draft_a_in_review.docx, escc9521003iss2_draft_a_in_review.docx							
Modifications:							
N/A							
Approval signature:							
Date signed:							

2024-07-23