





**DISPLACEMENT DAMAGE
TEST REPORT
No. ATN-RR-333**

Issue/Rev: 1

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Date: 2015/05/28

R.L: 2015010918

Component No CS249/L2S Option 20		Component Designation: CS249	Irradiation Spec. No.: ESA/SCC 22900 Iss. 4
Gen. Spec.: MIL-PRF-19500 Det. Spec.: DWG CS249/L2S Amend.: N/A		Evaluation: X Acceptance Wafer: - Acceptance Lot: -	Project/Programme: CU1
Family: 18	Group: 01	Functional Assignment: CERAMIC HERMETICALLY SEALED, RADIATION HARD TRANSISTOR OPTOCOUPLER	Package: DIL-6
Manuf.Name: ISOCOM LIMITED Address: GREAT BRITAIN		Test House: ATN Address: SEVILLA (SPAIN)	Facility Name: UCL Address: LOUVAIN LA NEUVE (BELGIUM)
Radiation Test Plan No.: ATN-RP 170 Iss.1		Sample Size: 5 Irradiation Devices: 4 Control Devices: 1	Date Code: 1508 Assembly Lot: I3053 Diffusion Run: 84609021073/3821D061111
Beam Energy: 60 MeV Flux: 1E8 [p/s cm ²]		Interest level: N/Av	Maximum Test Level: 8E11 p/cm ²
Irradiation Conditions: Biased: N/A Unbiased: 4 samples Test Circuit: Figure 1		Irradiation Measurements Interval: Remote test: X In situ Test: --	Annealing Tests: N/A Biased: N/A Unbiased: N/A Test Circuit: N/A
Remark: The results obtained during the irradiation test process show that the samples are sensitive to the cumulative fluence when are tested at a beam energy of 60 MeV up to an accumulated fluence of 8E11 p/cm ² . The IC/IF ₁ , IC/IF ₂ , IC/IF ₃ , IC/IF ₄ , IC/IF ₅ , IC/IF ₆ and V _{CE(SAT)} are the most affected parameters. Only the V _F , I _R , I _{CEO} , IC/IF ₃ and IC/IF ₅ remain within limits during the whole irradiation test.			
Prepared by.: José Joaquín González Date: 2015/05/28 Signature: 		Approved by.: Eugenio Muñoz Date: 2015/05/28 Signature: 	

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