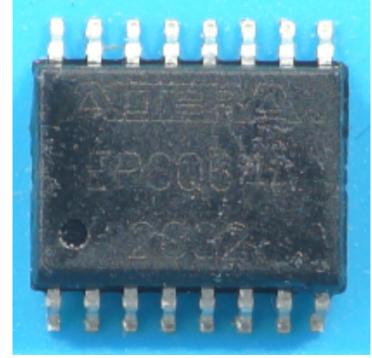
Customer Name:	CONTROP	Report #:	87221			\sim	Mage	ا	
Mfr P/N:	EPCQ64ASI16N	Devices Received:	2				Labo	ratories	
Manufacturer:	INTEL- ALTERA	Lot/Date Code:	2032-2124				NU MAR	4	
Customer P/N:	N/A	Purchase Order:	24002141						
							TEST	ISONECTIVO25	
Summary of Inspect	ion / Analys Results Report #:	87221	Devices	s received a	nd First S	ave Date	: 15-04-202	24	
respect to the observation	with compliance to AS6081 Level ation of anomalies or evidence of ere found within the lot or test sa	f counterfeiting.		thout a Golde	en sample	device fo	r direct con	nparison, with	
Total 2 devices with d	ate/lot code 2032-2124.								
The devices were pul Bent leads were obse Evidence of prior use, Evidence of residuals Evidence of dirt, resid Devices failed externa	ly inspected under 40x microsco led out from a card. rved on both devices. , solder residuals on leads on bot on pin one cavity on both device lue and/or foreign contamination	th devices as. on top side on both device	95.						
2 Devices fail test.									
Test Process Operation	Ob	oservations		Quantity Inspected	Pass	Fail	Suspect	Performance Date	
1 Documentation and	Packaging (SAE AS6081, 4.2.6.	.4.1) (Non-Destructive)					1		
Condition Observed	Devices were received in accept	ptable condition. Total 2 d	evices.	2	2	0	0	16-04-2024	
2,1 Lifecycle and Cou	nterfeit Risk (For information On	ly) (Non-Destructive)						-	
Lifecycle and	No high risk parts were found o	on ERAI.		0	0	0	0	16-04-2024	
Counterfeit Risk									
2,2 External Visual In	spection (Non-Destructive)			•					
Condition Observed	2 devices were visually inspect The devices were pulled out fro								
	Device 1: Lot 2032. Device 2: Lot 2124.			2	0	2	0	18-04-2024	
	Bent leads were observed on b Evidence of prior use, solder re Evidence of residuals on pin or Evidence of dirt, residue and/or both devices. Devices failed external visual in	esiduals on leads on both one cavity on both devices. r foreign contamination on							
	Approved by: Haim Sharabi		Issue Date	07/05/2024			Page 1 C	of 28	
honesty and integrity. However in r connection with the test report or da requested: Passed - The measure	isclaimer: I.M. Shield Laboratories LTD Also Known As MAGEN LABORATORIES are dedicated to ensuring the highest standard of product testing in the industry and extend every effort to report reliable data and an accurate interpretation with neesty and integrity. However in no event shall I.M. Shield Laboratories LTD be liable any special, indirect or consequential damages or any damages whatsoever resulting from loss of any kind including profits, in any action arising out of or in neection with the test report or data associated with the report and no responsibility for errors which may appear in this report. For Information only, Magen lab decision rule is "a simple rule" according to ILAC-68:09/2019 unless otherwise quested: Passed - The measured values were observed in tolerance at the points tested. Failed - One or more measured values were observed out of tolerance at the points tested. Uncertainty or guard band will not be used when judging pass/fail th measured values, unless requested by costumer. This report shall not be reproduced except in full without written approval of I.M. Shield Laboratories LTD. The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under law. I.M. Shield Laboratories LTD - Hamasger St 17, Netanya, 4237878 Israel - Tel: 972-9-9568352 - Email: sales@magenlab.com								

		i	i					
Customer Name:	CONTROP	Report #:	87221			$(^{\circ})$	Mag	en . ratories)
Mfr P/N:	EPCQ64ASI16N	Devices Received:	2				Labo	ratories
Manufacturer:	INTEL- ALTERA	Lot/Date Code:	2032-2124			N.		
Customer P/N:	N/A	Purchase Order:	24002141					ALLOCACIONAL DE LA CONSTITUCIÓN A LOCRADA DE LA CONSTITUCIÓN DE LA DELA DE LA DELA DELA DELA DELA DE
Test Process Operation	Obser	vations		Quantity Inspected	Pass	Fail	Suspect	Performance Date
2,3 Package Inspection	on (SAE AS6081) (Non-Destructive)							
Dimensions	All Measurements in mm: Datasheet specification. LENGTH = D WIDTH = E1 THICKNESS = A2 Min. 10.30 7.50 2.05 Max. 10.30 7.50 2.55 Dimensions match datasheet specification and Tolerances conform to ANSI Y14.5M-1994. SAMPLE D/C 2332: L = 10.54, W = 7.38, T = 2.32. SAMPLE D/C 2124: L = 10.29, W = 7.38, T = 2.35 Equipment Use: CALIPER ASSET #32, Next Cal: 03/2025.			2	2	0	0	18-04-2024
3,4 Remarking and R	esurfacing (SAE AS6081 4.2.6.4.3 A	A / 4.2.6.4.3 B) (Destruc	ctive)	-	-		-	
Solvent Tests	2124 using three parts mineral spin part isopropyl alcohol (CAS No. 67 swabbed Sample 1-2: No marking was remo	Permanency test was performed on 1 device lot 2032 and 1 device lot 2124 using three parts mineral spirits (CAS No. 8052-41-3) with one part isopropyl alcohol (CAS No. 67-63-0). Devices were cotton swabbed Sample 1-2: No marking was removed during this process. Devices passed marking permanency testing!			2	0	0	02-05-2024
	device lot 2124 ,using Dynasolve 750 solution. Sample 1-2: No marking was removed, no scratches, sanding marks or sign of remarking was observed.							
5 X-Ray Analysis (SA	E AS6081 4.2.6.4.4) (Non-Destruction	ve)		1			1	-
Internal Construction	truction 1 sample lot 2032 and 1 sample lot 2124 were X-rayed. Die construction and size are all the same No anomalies were found Showing 2 pictures in this report			2	2	0	0	21-04-2024
6 XRF Analysis 3 Dev	vices (SAE AS6081 4.2.6.4.5) (Non-I	Destructive)					•	•
RoHS / Non-RoHS Compliance	2 devices were XRF tested. Devices are ROHS compliant with Devices match datasheet specifica Devices pass XRF Analysis test.		6.	2	2	0	0	22-04-2024
7 Solderability Test (J	I-STD-002) (Destructive)							
Solder Test	1 device lot 2032 and 1 device lot method. Devices were inspected u Sample 1-2: All leads have over 98 voids are found. Devices passed Solder test!	Inder 20X magnification). 1.	2	2	0	0	02-05-2024
8 Decapsulation Inter	nal Analysis (AS6081 4.2.6.4.6) (De	structive)						
Die Verification	Internal inspection was performed on 2 devices from two different lots: Lot 2032 and Lot 2124. Found 1 DIE in each device. Devices revealed WINBOND logo. Die lot 2032 Marking: AAG050 WINBOND C M. Die lot 2124 Marking: AAG050 WINBOND C M. Device confirmed to be WINBOND manufacturer. The two dies from different lot are found IDENTICAL. No history or golden sample for comparison.			2	2	0	0	05-05-2024
9 Electrical Test (MIL	-STD-883 and Manufacturer Specific	•	e)				I	
Electrical Test TA @ 21 +/- 3 Degree C	A @ 2 DEVICES Tested for FUNCTIONAL TEST method with 2 0 PROGRAMMER.					2	0	25-04-2024
	Approved by: Haim Sharabi		Issue Date	07/05/2024			Page 2	Of 28
honesty and integrity. However in a connection with the test report or d requested: Passed - The measure	ies LTD Also Known As MAGEN LABORATORIES are det no event shall I.M. Shield Laboratories LTD be liable any ata associated with the report and no responsibility for error d values were observed in tolerance at the points tested. Fa seted by costumer. This report shall not be reproduced excep I.M. Shield Laboratories LTD - Hamasg	special, indirect or consequential dars s which may appear in this report. For siled - One or more measured values it in full without written approval of I.M. punishable as a felony u	nages or any damages r Information only, Ma were observed out of to . Shield Laboratories LT nder law.	whatsoever resulting agen lab decision ru plerance at the points D. The recording of f	g from loss of an le is "a simple r tested. Uncertair alse, fictitious or	y kind including ule" according ity or guard ban fraudulent state	profits, in any a to ILAC-G8:09/ d will not be use	ction arising out of or in 2019 unless otherwise d when judging pass/fail

Customer Name:	CONTROP	Report #:	87221			(Mage	en ratories
Mfr P/N:	EPCQ64ASI16N	Devices Received:	2			(V)	Labo	ratories
Manufacturer:	INTEL- ALTERA	Lot/Date Code:	2032-2124			softe	Ungen _	4
Customer P/N:	N/A	Purchase Order: 24002141)02141		ARSI National Accorditation Board		
						the second s	alalalalat TES	ISOVEC 17025
Test Process Operation	Obser	vations		Quantity Inspected	Pass	Fail	Suspect	Performance Date
Outgoing Goods Insp	ection (Non-Destructive) / CDC for s	equence moderate risk	ζ					
Outgoing Inspection	tgoing Inspection Devices are ready for shipping instruction. Decision rule: Passed - The measured values were observed in tolerance at the points tested. Failed - One or more measured values were observed out of tolerance at the points tested.		0	0	0	0	07-05-2024	

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punishable as a felony under law.						
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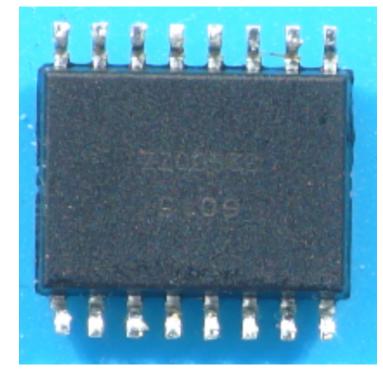
Customer Name:	CONTROP	Report #:	87221	Magen
Mfr P/N:	EPCQ64ASI16N	Devices Received:	2	Laboratories
Manufacturer:	INTEL- ALTERA	Lot/Date Code:	2032-2124	
Customer P/N:	N/A	Purchase Order:	24002141	



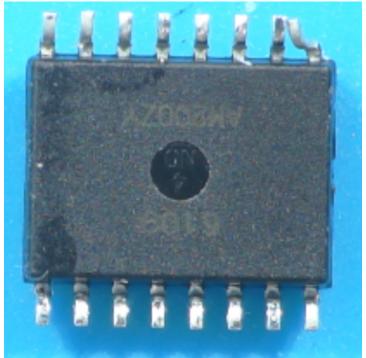
Picture #: 7. TOP-LOT 2032-EVIDENCE OF DIRT, RESIDUE AND/OR FOREIGN CONTAMINATION



Picture #: 8. TOP-LOT 2124--EVIDENCE OF DIRT, RESIDUE AND/OR FOREIGN CONTAMINATION



Picture #: 9. BOTTOM-LOT 2032



Picture #: 10. BOTTOM-LOT 2124

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Mfr P/N:	EPCQ64ASI16N	Devices Received:	2	🗌 🔍 Laboratories
Manufacturer:	INTEL- ALTERA	Lot/Date Code:	2032-2124	
Customer P/N:	N/A	Purchase Order:	24002141	

8 Decapsulation Internal Analysis (AS6081 4.2.6.4.6) (Destructive)

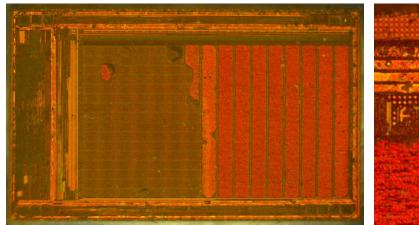
Results:

Internal inspection was performed on 2 devices from two different lots: Lot 2032 and Lot 2124. Found 1 DIE in each device. Devices revealed WINBOND logo. Die lot 2032 Marking: AAG050 WINBOND C M. Die lot 2124 Marking: AAG050 WINBOND C M. Device confirmed to be WINBOND manufacturer. The two dies from different lot are found IDENTICAL. No bistory or adden completer or comparison

No history or golden sample for comparison.

Criteria	Observations	Acceptable	Not Acceptable	Suspect	N/A
Die Verification					
Die Topography	/	Х			
Die Markings	Die lot 2032 Marking: AAG050 WINBOND C M. Die lot 2124 Marking: AAG050 WINBOND C M.	Х			

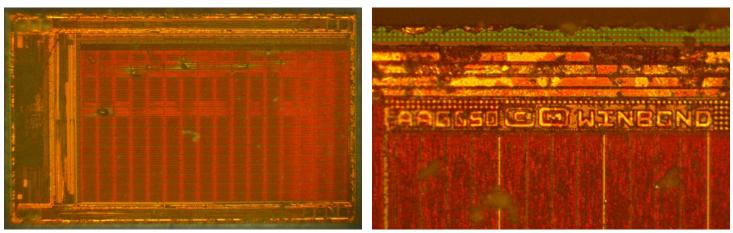
Images for 8 Decapsulation Internal Analysis (AS6081 4.2.6.4.6) (Destructive)



Picture #: 52. DIE LOT 2032 TOPOGRAPHY.



Picture #: 53. DIE LOT 2032 MARKING.



Picture #: 54. DIE LOT 2124 TOPOGRAPHY.

Picture #: 55. DIE LOT 2124 MARKING.

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