conics Testing of	Analysis Report - 2000-20058								
llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843					
I lede	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534					
9% - S	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153					

# Summary Of Inspection Results

Results Summary Devices are tested per AS6081 Level A and Level C testing.

Conclusion: With respect to the observation of anomalies or evidence of counterfeiting, no inconsistencies were found with the lot or test samples during the AS6081 level A and level C electrical testing.

Test-Process Operation		Quantity Inspected	Pass	Fail	Date	N/A	Comments /	Observations
Documentation and Packaging (	SAE AS60	81, 4.2.6.4.3	1) (Non-de	structive)				
Condition Observed		153	153	0	2016-12-09		Devices were received in acce devices with date code 0534.	eptable condition. Total 153
External Visual Inspection (SAE	AS6081)(	Non-destruct	tive)					
Condition Observed		153	153	0	2016-12-13		153 devices from date code 0534 were visually inspected under 40x microscopy. No anomalies were observed. Devices passed visual inspection.	
Package Inspection (SAE AS608	Package Inspection (SAE AS6081)(Non-destructive)							
Dimensions		3	3	0	2016-12-13		Dimensions match datasheet 56 PIN TSOP-I	specification
Re-Marking / Re-Surfacing Testi	ng (SAE A	S6081)						
Solvent Test for Re-marking - Permanency(Non-destructive)		3	3	0	2016-12-15		Mark permanency test was performed on 3 devices from date code 0534 using 3 parts Mineral Spirits, 1 part Isopropy Alcohol mixture. Devices were cotton swab with no marking removed during this process. Devices passed marking permanency testing.	
Solvent Test for Re-Surfacing - A (Destructive)	Acetone	3	3	0	2016-12-15		Acetone test was performed on 3 device from date code 0534. No secondary coating was removed during this process. Devices passed acetone testing.	
Solvent Test for Re-Surfacing - (Destructive)	1M 2P	3	3	0	2016-12-15		1-Methyl 2-Pyrrolidinone was performed on 3 devices from date code 0534. Devices were immerse the in the solution and heat it to 115 to 120 °C for 2 to 5 min. No secondary coating was removed during this process. Devices passed 1-Methyl 2-Pyrrolidinone testing.	
Solvent Test for Re-Surfacing - H Solvent (Destructive)	Heat	3	3	0	2016-12-15		HST (Heated Solvent Test) was performed on 3 devices from date code 0534 using Dynasolve 750 solution. No secondary coating was removed during this process. Devices passed HST testing.	
Delid/Decapsulation Internal An	alysis (AS	6081 4.2.6.4	l.6)(Destru	ctive)				
Die Verification		3	3	0	2016-12-15	Internal inspection was performed on 3 devices with date code 0534. Devices revealed Micron Technology Inc logo with 2002 copyright. Die marking MT28F128J3 Rev 053A was also found. Die marking correlates with device's external family marking and confirmed to be correct Micron devices.		med on 3 devices with date Micron Technology Inc logo king MT28F128J3 Rev 053A was lates with device's external I to be correct Micron devices.
X-Ray Inspection (SAE AS6081 4	4.2.6.4.4)	Non-destruc	tive)					
Internal Construction		45	45	0	2016-12-15		45 samples of date code 0534 construction and size are all the found.	l were X-rayed. Die he same. No anomalies were
XRF Inspection (SAE AS6081 4.2	2.6.4.5)(N	on-destructiv	ve)					
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Approved by:	Global Elec	tronics Testing	Services, LL	C USA be liab	le any special, indire	ect or co	insequential damages or any tion arising out of or in connection	Page:
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onics Testing		Analysis Report - 2000-20058							
lect	Customer N	lame: AS	AS6081 SAMPLE REPORT				Purchase Order:	3843	
Figure 1 Figure 1	Part Nu	mber: M	T28F128J3RF	P-12MET			Lot/Date Code:	0534	
No 5	Manufac	turer: M	MICRON TECHNOLOGY			D	evices Received:	153	
RoHS Compliant		3	3	0	2016-12-15	3 Samples of 0534 date code were checked for Rol Compliance. These 3 devices are RoHs compliant w measurements of 0% Pb levels. Pb levels < 0.1% a compliant per EU RoHS Directive (2011/65/EU) rest		date code were checked for RoHs 2 3 devices are RoHs compliant with 0% Pb levels. Pb levels < 0.1% are RoHs RoHS Directive (2011/65/EU) restriction.	
Electrical Test (MIL-STI	D-883 and Manufac	turer Spec	ification)(No	on-destruct	ive)				
Memory Function Test TA = 25°C		116	116	0	2016-12-14		MT28F128J3RP-12MET:Flash NAND Flash Parallel 3.3V 128M-bit 16M x 8/8M x 16 120ns 56-Pin TSOP-I Tested 116 functionally at 25C via Memory Test: Read, Verify, and Blank Check. Passed: 116. Checksum: FF000000. Sample Programming was performed and Part's erased afterwards at 25C.		
Equipment Used PROGRAMMER 6000				Asset Ta	Asset Tag: 58 Calibration Due Date: Not Required Cert: CALIBRATION NOT REQUIR				
Final (Outgoing Packag	jing) (IPC/JEDEC J-S	TD-033B.1	)						
Outgoing Package		150	150	0	2016-12-15		Devices were pack packages.	aged at 50pcs per package. Total of 3	

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conics Testing of	Analysis Report - 2000-20058							
3lect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843				
I lede	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534				
93 5	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153				

Documentation and Packaging (SAE AS6081, 4.2.6.4.1) (Non-destructive)

**Results Summary** Devices were received in acceptable condition. Total 153 devices with date code 0534.

Criteria	Acceptable	Suspect	Not	N/A	Comments / Observations
Incoming Conditions	<u> </u>	<u> </u>	receptuble	<u> </u>	
ESD Protection	x				
Poor Syntax or Alterations	x				
Correct MSL Packaging	X				
Quantity Match Document	x				
Box Damaged	X				
Type of Package	x				Cut tape

## Images For Documentation and Packaging .



Figure 1. INCOMING

Figure 2. INCOMING

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conics Testing of	Analysis Report - 2000-20058								
lect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843					
I leaf	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534					
919 S	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153					

External Visual Inspection (SAE AS6081 or MIL-STD-883, Method 2009.9)(Non-destructive)

**Results Summary** 153 devices from date code 0534 were visually inspected under 40x microscopy. No anomalies were observed. Devices passed visual inspection.

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
Suspect/Counterfeit Report(s) For Notification Purpo	ose Only				
Status					Obsolete
Search of GIDEP database found suspect/counterfeit report(s)					High risk parts were found
Search of ERAI database found suspect/counterfeit report(s)					No high risk parts were found
Search of GETS database found suspect/counterfeit report(s)					No high risk parts were found
External Conditions					
Markings - Top	x				0534 MT 28F128J3 RP-12 MET A LY00
Pin 1 Cavity - Top	X				
Body Residue	х				None was observed
Construction Quality	x				Acceptable
Lead / BGA Conditions					
Lead Alignment	x				Acceptable
Lead Formation / Scratches	Х				Acceptable
Lead Missing Pins	x				None was observed
Lead Plating Composition	Х				Accceptable
Lead Excessive or Uneven Plating	x				Acceptable
Lead Discoloration, Dirt or Residue	Х				None was observed
Lead Oxidation	x				None was observed

## Images For External Visual Inspection.

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onics Testing or	Analysis Report - 2000-20058									
oiv19	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843						
Es, 2	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534						
No 25	Manufacturer: MICRON TECHNOLOGY		Devices Received:	153						
	0534 I-I MT 28FI28J3 RP -I2 MET A									

Figure 3. TOP

Figure 4. BOTTOM



Figure 5. SIDE

Figure 6. TOP PIN

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conics Testing of		Analysis Report - 2000-20058					
llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Es. 2	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
No 5	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			



Figure 7. BOTTOM PIN

Figure 8. LEADS VIEW 1



Figure 9. LEADS VIEW 2

Figure 10. LEAD ENDS

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llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Hedder	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

Device Package					
Results Summary SAMPLE 1 L=20.00mm, W=13.94mm, Thickness=1. SAMPLE 2 L=19.99mm, W=13.92mm, Thickness=1. SAMPLE 3 L=20.01mm, W=13.96mm, Thickness=1.	10mm 07mm 10mm				
Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
Package Dimensions					
Dimensions	х				
		-			
Images For Device Package.					
			1394-04		
Figure 11. LENGTH		Fig	ure 12. WIDT	Н	Figure 13. THICKNESS



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onics Testing or	Analysis Report - 2000-20058					
liect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843		
Hedden	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534		
	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153		

# Remarking and Resurfacing (SAE AS6081)

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations		
Re-Surfacing / Re-Marking Testing (SAE AS6081)							
Solvent Test for Re-marking - Permanency (Non-destructive)	х				Mark permanency test was performed on 3 devices from date code 0534 using 3 parts Mineral Spirits, 1 part Isopropyl Alcohol mixture. Devices were cotton swab with no marking removed during this process. Devices passed marking permanency testing.		
Solvent Test for Re-Surfacing - Acetone (Destructive)(CAS Registry 67-64-1)	х				Acetone test was performed on 3 device from date code 0534. No secondary coating was removed during this process. Devices passed acetone testing.		
Solvent Test for Re-Surfacing - 1M 2P (Destructive)(CAS Registry 872-50-4)	х				1-Methyl 2-Pyrrolidinone was performed on 3 devices from date code 0534. Devices were immerse the in the solution and heat it to 115 to 120 °C for 2 to 5 min. No secondary coating was removed during this process. Devices passed 1-Methyl 2-Pyrrolidinone testing.		
Solvent Test for Re-Surfacing - Heat Solvent (Destructive) Dynasolve 750	x				HST (Heated Solvent Test) was performed on 3 devices from date code 0534 using Dynasolve 750 solution. No secondary coating was removed during this process. Devices passed HST testing.		

## Images For Remarking and Resurfacing.



Figure 15. SAMPLE 1 PERMANENCY





Figure 16. SAMPLE 2 PERMANENCY

Figure 17. SAMPLE 3 PERMANENCY



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conics Testing or		Analysis Report - 2000-20058					
llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Es, 2	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
No 5	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

Delid/Decapsulation Internal Analysis (AS6081 4.2.6.4.6) or (MIL-STD-883, Method 2014) (Destructive)

**Results Summary** Internal inspection was performed on 3 devices with date code 0534. Devices revealed Micron Technology Inc logo with 2002 copyright. Die marking MT28F128J3 Rev 053A was also found. Die marking correlates with device's external family marking and confirmed to be correct Micron devices.

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations	
Internal Visual Inspection						
Die Topography	х					
Die Markings	х					

### Images For Delid/Decapsulation Internal Analysis.



Figure 27. DIE-1-20058

Figure 28. DIE MARKING - 1

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conics Testing of	Analysis Report - 2000-20058						
llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
H leaf	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
70 5	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			



Figure 29. DIE-2-20058

Figure 30. DIE MARKING - 2



Figure 31. DIE-3-20058

Figure 32. DIE MARKING - 3

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conics Testing of	Analysis Report - 2000-20058						
alect,	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Es, Lt.	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

### X-Ray Analysis (SAE AS6081 4.2.6.4.4)(Non-destructive)

### **Results Summary**

45 samples of date code 0534 were X-rayed. Die construction and size are all the same. No anomalies were found.

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
X-Ray Analysis		_			
Die Construction	х				
Wire Bond Layout/Quality	х				
Lead Frame Construction	х				

### Images For X-Ray Analysis.



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conics Testing of	Analysis Report - 2000-20058						
liect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Hedden	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

XRF Analysis (SAE AS6081 4.2.6.4.5)(Non-destructive)

### **Results Summary**

3 Samples of 0534 date code were checked for RoHs Compliance. These 3 devices are RoHs compliant with measurements of 0% Pb levels. Pb levels < 0.1% are RoHs compliant per EU RoHS Directive (2011/65/EU) restriction.

Criteria	Acceptable	Suspect	Not Acceptable	N/A	Comments / Observations
XRF Analysis					
RoHS Compliance	х				





Figure 80. SAMPLE 2 XRF

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tonics Testing of	Analysis Report - 2000-20058						
llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
Hedden	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

Electrical Test (MIL-STD-883 and Manufacturer Specification) **Results Summary** MT28F128J3RP-12MET:Flash NAND Flash Parallel 3.3V 128M-bit 16M x 8/8M x 16 120ns 56-Pin TSOP-I Tested 116 functionally at 25C via Memory Test: Read, Verify, and Blank Check. Passed: 116. Checksum: FF000000. Sample Programming was performed and Part's erased afterwards at 25C. Quantity **Test-Process Operation** Fail Date N/A Comments / Observations Pass Inspected Electrical Test (MIL-STD-883 and Manufacturer Specification) Memory FunctionTest  $TA = 25^{\circ}C$ 116 116 0 2016-12-14 Equipment Used PROGRAMMER 6000 Calibration Due Date: Not Required Cert: CALIBRATION NOT REQUIRE Asset Tag: 58

### Images For Electrical Test.

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llect	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
H leas	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
No 25	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			





MT28F128J3RP-12MET:Flash NAND Flash Parallel 3.3V

128M-bit 16M x 8/8M x 16 120ns 56-Pin TSOP-I Pin Diagram DUT Test Features are turned on at 25C

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Stopics Testing Gartio	Analysis Report - 2000-20058						
	Customer Name:	AS6081 SAMPLE REPORT	Purchase Order:	3843			
H Teas	Part Number:	MT28F128J3RP-12MET	Lot/Date Code:	0534			
No 25	Manufacturer:	MICRON TECHNOLOGY	Devices Received:	153			

Device MICRO	V MT28F128J3A(MICRON)@TSOP56	Flash:800000H*16 56F	Pins	Decision	MCRON MTOLEVOL	21.06/0/2007/201		10 200Luz/			
Buffer Checksum: FF000000H File = C:\Users\ab2\Desktop\test hex			Desize     Theorem multi-calculation of the Characterization of the Characterization     Desize     Desiz								
Operation Option   Auto Program Read Verify Blank_Check Erase Lock_Blocks Clear_LockBits	Edit Auto Dev. Config Current time is 12/1 Preparing MICRON MT26F128J3A(M Algo: FW128J3B Checksum: FF000000H Ready. Reading Read OK! Verifying Vcc = 3.14 (V) Verification OK! Verifying Vcc = 3.46 (V) Verification OK! Blank_Checking Blank_Check OK! 0:00'14"46 elapsed.	Dev. Info SUPERPRO progn 3/2016,15:33:59 ICRON) @TSOP56	Data Compare	Anuto Program Read Verify Blank_Che Erast Lock_Ploc	RCK 000 000 000 000 000 000 000 000 000 00	CONTRACT      CONTRACT	27         38         39         37           27         38         38         38         38           28         38         38         38         38           27         28         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38         38         38         38         38           28         38	DES         DES           12         12         12         12         12           12         12         12         12         12         12           12         12         12         12         12         12         12           12         12         12         12         12         12         12         12           12 <th>17         17&lt;</th> <th>FF FF FF FF FF FF FF FF FF FF FF FF FF</th> <th>doll A</th>	17         17<	FF FF FF FF FF FF FF FF FF FF FF FF FF	doll A

Figure 84. MT28F128J3RP-12MET BLANK CHECK 5 PERCENT

Memory Test Operations was performed passed at 25C: Read, Verify, and Blank Check. Pass!

(with shown Vcc)



Figure 86. MT28F128J3RP-12MET PROGRAM TRIAL BUFFER

DUT shown data buffer contents at 25C after Sample Programming was performed

DUT was programmed, erased, and re-verified Blank Check. Pass!

and

Part's erased afterwards at 25C. Pass!

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Tang, Dan C.	damages whatsoever resulting from loss of any kind including profits, in any action arising out of or in connection with the test report or data associated with the report.	
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Figure 85. MT28F128J3RP-12MET BLANK CHECK BUFFER

DUT shown blank data buffer contents at 25C => Passed Blank Check (CS=0xFF000000)

Device MICR	ON MT28F128J3/	I MT28F128J3A(MICRON)@TSOP56 Flash:800000H*16 56Pins						
Buffer Chec	ksum: FF000000H	n: FF000000H File = C:\Users\lab2\Desktop\test.hex						
Operation Option	Edit Auto	Dev. Config	Dev. Info	Data Compare				
<pre>% Auto % Program % Read % Verify % Blank_Check % Erase % Lock_Blocks % Clear_LockBit</pre>	Current Prepari: MICRON Algo: F Checksuu Ready. Prepari: Current Load fi Checksuu Ready. Program Program Program Program S Diolo 29 Erasing Erase O 0:01'21 Reading Read OK Verifyi Vcc = Verific: Blank_C D:00'14	<pre>time is 12/13/ ag %T286F128J3A(MIC %T286F128J3B n: FF000000H ag time is 12/13/ le : C:\Users\1 n: FEFFF472H ming oK! "96 elapsed k! "20 elapsed ing 3.14 (V) ation OK! ng 3.46 (V) ation OK! hecking heck OK! "45 elapsed.</pre>	UPERPRO progn 2016,15:47:0 RON)@TSOP56 2016,15:47:2 ab2\Desktop\1	ranner starts 3. 1. test.hex.				

# Figure 87. MT28F128J3RP-12MET BLANK CHECK ERASE