

Product Analysis Report

		Quantity Received:		2200					
FireAlps Hungary Kft		Quantity Inspected: Report Date/Time:		13					
N/A				7/30/21 9:46 AM					
Harry		Approved by:		Niel Colico					
PRODUCT INFORMATION									
Jumber: TXS0108EZXYR		Package Type:	UFBC	GA-20					
Texas Instruments		<u>.</u>							
8-Bit Bi-directional, Level-Shifti Applications	ing, Vo	oltage Translator fo	or Opei	n-Drain and Push-Pull					
https://pdf1.alldatasheet.com/data	sheet-p	odf/view/229819/TI/T	XS010	8EZXYR.html					
REPOR	T SL	IMMARY							
Result: Unused									
on (EVI). Product arrived in tap solution and scrape tests for re ntact marks on solder balls. The as are not considered problema	e and emarki e samp tic. Pa e withir	reel packaging. Ing and resurfacing ples exhibit minor o ints do not exhibit s	g, indic contam solder r	ating that they are not ination and scratches on the remnants or any indication of					
	PRODUCT TXS0108EZXYR Texas Instruments 8-Bit Bi-directional, Level-Shift Applications https://pdf1.alldatasheet.com/data REPOR struments TXS0108EZXYR we on (EVI). Product arrived in tap solution and scrape tests for re ntact marks on solder balls. The s are not considered problema and b were measured and were s shown on the Package Outline as "Unused".	TXS0108EZXYR Texas Instruments 8-Bit Bi-directional, Level-Shifting, Va Applications https://pdf1.alldatasheet.com/datasheet-p REPORT SC struments TXS0108EZXYR were recommended in tape and solution and scrape tests for remarking sare not considered problematic. Paragements TXS0108EZXYR were recommended in tape and solution and scrape tests for remarking sare not considered problematic. Paragements TXS0108EZXYR were recommended in tape and solution and scrape tests for remarking sare not considered problematic. Paragements TXS0108EZXYR were recommended by the measured and were withing shown on the Package Outline Draw	Approved by: TXS0108EZXYR Package Type: Texas Instruments Package Translator for Applications https://pdf1.alldatasheet.com/datasheet-pdf/view/229819/Tl/T Risk Level: Struments TXS0108EZXYR were received for analysis, on (EVI). Product arrived in tape and reel packaging. solution and scrape tests for remarking and resurfacing ntact marks on solder balls. The samples exhibit minor is are not considered problematic. Parts do not exhibit states are not considered	Approved by: PRODUCT INFORMATION TXS0108EZXYR Package Type: UFBC Texas Instruments 8-Bit Bi-directional, Level-Shifting, Voltage Translator for Oper Applications https://pdf1.alldatasheet.com/datasheet-pdf/view/229819/TI/TXS010 REPORT SUMMARY Risk Level: struments TXS0108EZXYR were received for analysis, from v on (EVI). Product arrived in tape and reel packaging. solution and scrape tests for remarking and resurfacing, indice tact marks on solder balls. The samples exhibit minor contarr is are not considered problematic. Parts do not exhibit solder r and b were measured and were within manufacturer specificatt is shown on the Package Outline Drawing (POD). as "Unused".					

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 86-755-8374-1887
 http://whitehorselabs.com

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Body (top	-side)				B	Body (bottom-side)					
		E>	(TERN/	AL VISU	AL	. INSPECTIOI	N				
REMAR	KING / RES	SURFACING T	EST								
Pass:	1		Fail:	0							
MARKIN	IG INSPEC	TION									
Pass:	13		Fail:	0			F.A.R:	0			
BODY IN	NSPECTIO	N									
Pass:	13		Fail:	0			F.A.R:	0			
TERMIN	AL INSPEC	CTION									
Pass:	13		Fail:	0			F.A.R:	0			
MECHA	MECHANICAL CHARACTERISTICS INSPECTION										
Pass:	13		Fail:	0			F.A.R:	0			
DOG											
		ND PACKAGE			1	GEN	NERAL	INSPE	SHON		
Number	of Boxes:	1				Package Carrier:	Тареа	and reel			
Docume	nt & Labels:	Match				ESD Protection:	Yes				
Date Co	de:	18				MSL Protection:	N/A				
Lot Code	9:	No available inf	ormation			Country of Mfg.:	No av	ailable int	formatior	1	

 Address:
 Phone Number
 URL:

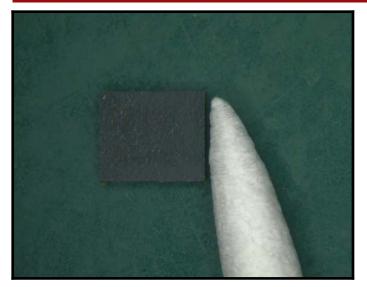
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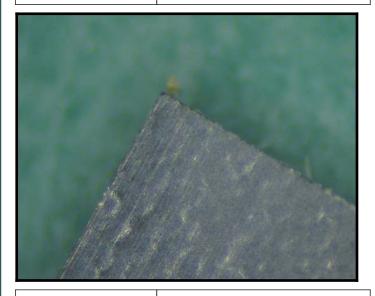
172524

APPENDIXES



Marking (top-side)

Before chemical resurfacing test

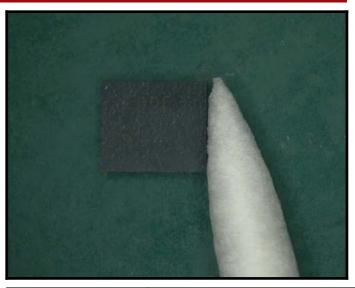


Marking (top-side)

Before mechanical resurfacing test

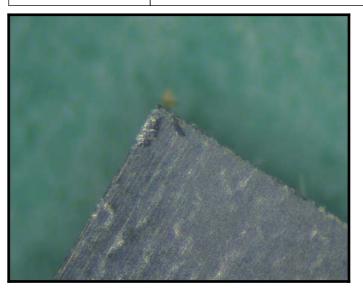
T _A	PACK	(AGE ⁽¹⁾⁽²⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	QFN – RGY	Reel of 1000	TXS0108ERGYR	YF08E
40°C to 85°C	TSSOP - PW	Reel of 2000	TXS0108EPWR	YF08E
	UFBGA – ZXY	Reel of 2500	TXS0108EZXYR	YF08E

Marking



Marking (top-side)

After chemical resurfacing test (Pass)



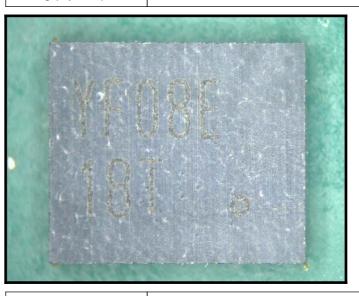
Marking (top-side)

After mechanical resurfacing test (Pass)

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Marking (top-side)

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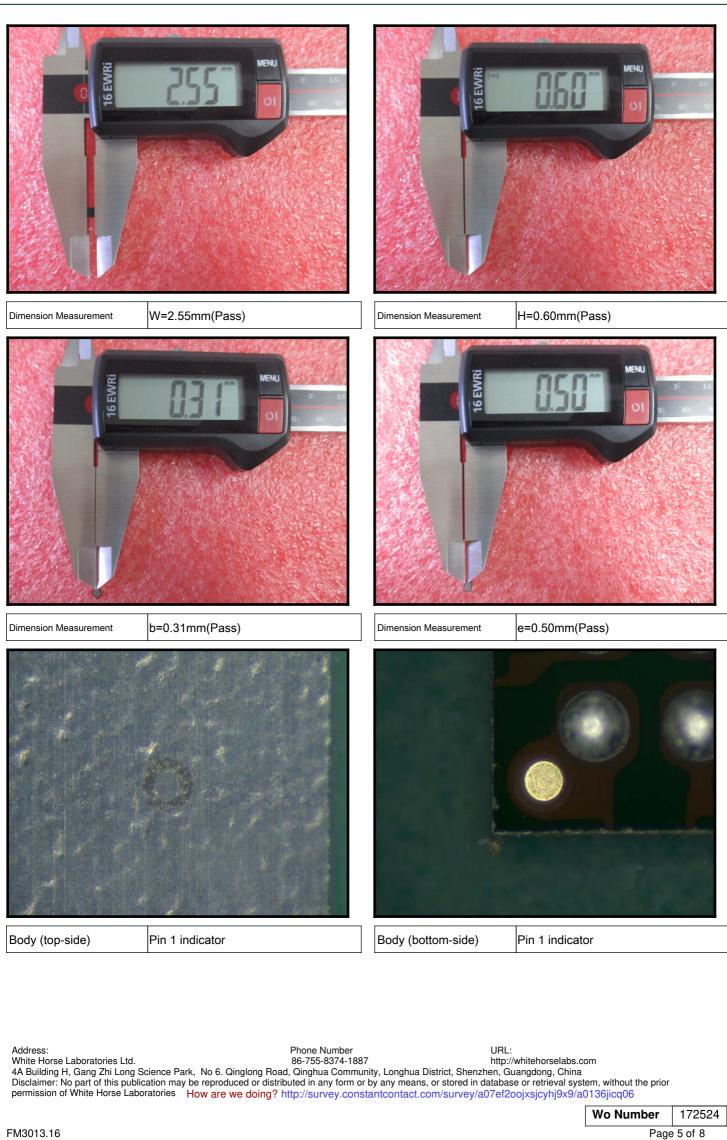
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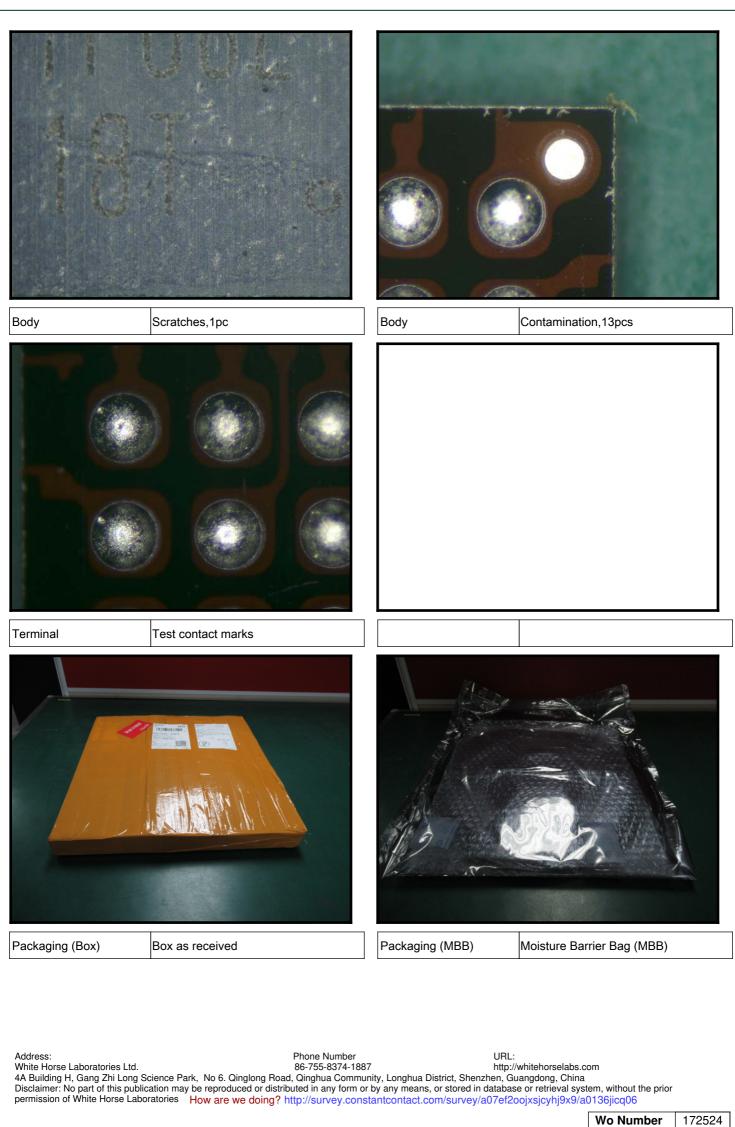
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FM3013.16

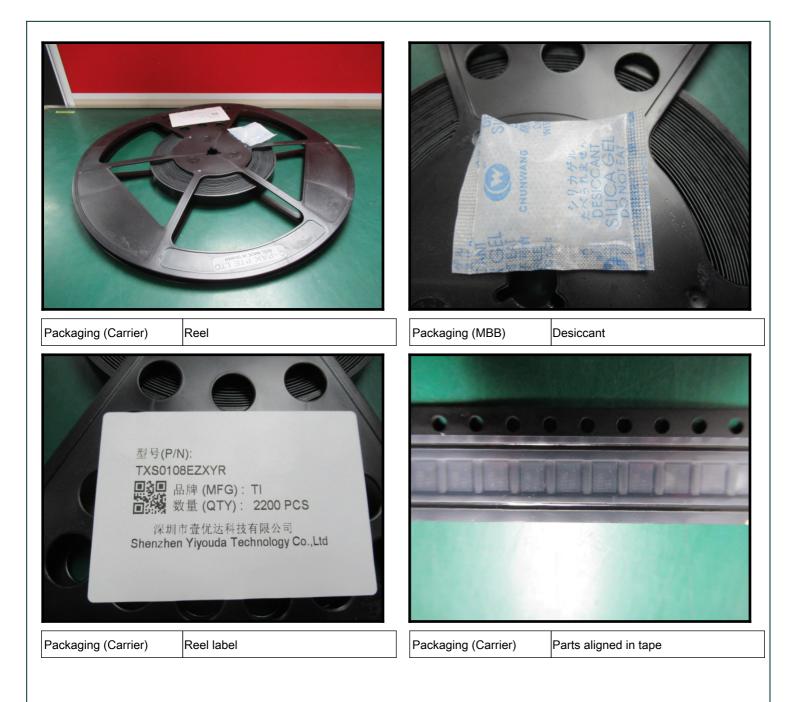
Ordanskie Davias Cistu							ZXY (S-	PBGA-N20)					GRID ARRA
Orderable Device Statu	⁽¹⁾ Package Type	e Package Drawing		ckage Eco Plan ⁽²⁾ Qty	Lead/Ball Fini	sh MSL Peak Temp ⁽³⁾		3,10 2,90		D		2.00 T/P	
TXS0108EDGVR PREV			20 2		Call TI	Call TI	\mathbf{v}			c	00	$\phi \circ$	0
TXS0108EGXYR PREV	CROSTA	GXY	20 2	500 TBD	Call TI	Call TI	2,60 2,40			B	00	$ \begin{array}{c} 0\\ 0\\ 0\\ 0 \end{array} $	
	R JUNI OR						↓			, L	1 2 #0.200r	3 4 nm identification pi	5 n without solder.
TXS0108EPWR ACTI	/E TSSOP	PW	20 2	000 Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0,405 0,320			orner a	Botto	m View	
TXS0108EPWRG4 ACTI	/E TSSOP	PW	20 2	000 Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0,320	L <u>900000</u>			g Plane		
TXS0108ERGYR ACTI	/E QFN	RGY	20 1	000 Green (RoHS &	CU NIPDAU	Level-2-260C-1 YEAR		→ → 0,35 0,25 ⊕ Ø 0.	05 🕲 0.1	25 15	8		
TXS0108EZXYR ACTI			20 2	no Sb/Br) 500 Green (RoHS &	SNAGCU	Level-1-260C-UNLIM							
	CROSTA R JUNI			no Sb/Br)									4207061/A 06/0
	OR						NOTES: A. A. B. C.	All linear dimensions are in his drawing is subject to a his package is a lead-free	milimeters. hange without no solder ball design	tice. n.			
rdering Informa	tion						Mechanic	al Dimensions	Р	ackage	Outline	Drawing	9
		and the second	200	Sec. Car	31	000				A D-			1.000
\$ K.O													
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	and the second	*					ALC: NO.						
								100	and the second				
				,									+
		Par	tac	bown on	POD		Machanic				hown or		-
echanical Dimensio	ns	Par	t as s	shown on	POD	1	Mechanic	al Dimensions	P	Part as s	hown or	n POD	
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic	al Dimensions	P	Part as s	hown or	n POD	
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic	1- V		Part as s	hown or		
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic	al Dimensions		i'art as s	hown or	MEN	1
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic	EWR		eart as s	hown or		1
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic	EWR		Part as s	hown or	MEN	1
echanical Dimensio	ns	Par	tass	shown on	POD		Mechanic Mechanic	EWR		eart as s	hown or	MEN	1
echanical Dimensio	ns	Par	tass	shown on	POD		Mechanic View of the second se	EWR		Part as s	hown or	MEN	1
echanical Dimensio	ns	Par	tass	shown on	POD		Mechanic	EWR		eart as s	hown or	MEN	1
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic Mechanic	EWR		Part as s	hown or	MEN	1
echanical Dimensio	ns	Par	t as s	shown on	POD		Mechanic Mechanic	EWR		Part as s	hown or	MEN	1
echanical Dimensio	ns	Par	tass	shown on	POD		Mechanic Mechanic	EWR		Part as s	hown or	MEN	1
echanical Dimensio				shown on				EWR		Part as s		MEN	1
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echanical Dimensio								16 EWR				MEN	1
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echanical Dimensio	ns pries Ltd. Zhi Long f this pub	Par	t as s	shown on	POD long Roa	86-755-8374-18 ad, Qinghua Comm ibuted in any form (B7 worky, Longhuz or by any mean	District, Shenz s, or stored in o	URL: http://wh hen, Guar Jatabaseo	=3.04m	bs.com) without the	

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Definitions (as defined within AS6081):

- KNOWN AUTHENTIC PART (Golden Sample) A part which has either been purchased directly from the manufacturer, their authorized distributors, or authenticated by the manufacturer with supporting documentation.
- UNUSED Electronic parts that have not been previously used (i.e., attached to a board or powered up since leaving the supply chain).
 Unused material can contain mixed date codes, lot codes, or countries of origin, and should be received in original factory or third-party packaging. The material may have minor scratches or other physical defects as a result of handling, but the leads should be in good condition and should not be refurbished. The material should be guaranteed to meet the manufacturer's full specifications. Unused programmable parts should be received without having been previously programmed.
- USED (REFURBISHED OR PULLED) Product that has been electrically charged and subsequently pulled or removed from a socket or other electronic application. Used product may be received in non-standard packaging, and may contain mixed lots, date codes, be from different facilities, etc. Parts may have physical defects such as scratches, slightly bent leads, test dots, faded markings, chemical residue or other signs of use, but the leads should be intact. Used product may be sold with a limited warranty, and programmable parts may still contain partial or complete programming which could impact the part's functionality.
- REFURBISHED Parts that have been renovated to restore them to a "like new" condition, e.g., leaded parts may have had their leads realigned and re-tinned and subjected to cleaning agents and chemical processing.
- COUNTERFEIT PART A fraudulent part that has been confirmed to be a copy, imitation, or substitute that has been represented, identified, or marked as genuine, and/or altered by a source without legal right.

Report Explanations:

- "Result" is the condition of devices, per the definitions provided by AS6081 (above) with the addition of "Remarked", which is any device who's original marking has been replaced. A device could, for example, but Unused but also have been remarked, so the Result would be "Unused/Remarked".
- "Risk Factor" is a calculation of the remaining risk of a device being counterfeit or substandard from the results of the processes conducted, and risk associated with not conducting some processes.
- Minor observations such as scratches and loose contamination from normal handling, packaging, storage and aging are defined and
 allowed within the JEDEC manufacturing standards. Images of minor observations are not included in the report but are on file and
 available upon request.
- "FAR" in the process summary on Page 2 means "Further Analysis Recommended". It is not always possible to reach a conclusion on a single process. When we recommend additional tests to verify an observation found in one process, or gaps in the requested test plan, we will identify those areas of risk as "FAR".
- Note that definitions are as defined within the AS6081 standard.

Notes and Disclaimers

- 1. Product analysis results are applicable for the inspected samples only.
- 2. Inspection methods are assigned Pass/Fail Criteria based upon JEDEC JES9B manufacturing standard. Military-grade products are inspected to MIL-STD specifications. Observations outside of those tolerances are deemed to make the product unfit for use.
- 3. Observations defined by IDEA-STD-1010B, AS6081, AS6171 and WHL expertise and experimentation affect the risk level and classification of the inspected product.
- 4. "Reference samples" are previously tested and/or inspected product which are used for comparison purposes to the devices analyzed for this report. "Known-good samples" are provided by the customer to compare to unverified product. "Golden samples" are acquired by WHL with direct traceability to the original manufacturer.
- 5. All source and measurement equipment are calibrated and suitable for the processes conducted with calibration certifications available upon request.
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- 7. WHL is obligated by our Nondisclosure and Confidentiality policy and agreements with our customers. Reports will be verified but no additional information will be supplied by WHL without the prior written approval of the party that requested and ordered the analysis.
- 8. All conducted methods are established, and test plan approved, by the customer.
- 9. White Horse Laboratories is an ISO 9001:2015 and ANSI/ESD S20.20-2014 certified company.

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