



Material declaration form

General Information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2024-02-06
Contact name*	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact phone*	Refer to Supplier Comment section	Contact email*	Refer to Supplier Comment section
Authorized representative*	Floriana SAN BIAGIO	Representative title	AMS Material Declaration champion
Representative phone*	Refer to Supplier Comment section	Representative email*	Refer to Supplier Comment section
Supplier comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty statement

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Legal statement

Supplier acceptance*	true	Legal declaration*	Standard
Supplier certifies that it gathered the provided information and such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part(s), and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part(s), the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form.			



Product				
Mfr item number	Mfr item name	Version	Manufacturing site	date
	BUDG*UBEEAD5	A	Z7GA-997G	2024-02-06
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	69	mg	Each	ECOPACK® 3

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	0	

Comment	B06L QFPN 5X5X0.90 24L PITCH 0.65 A.G; MDF is valid for ALED7709BTR
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QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		Response
1 - Product(s) meets EU RoHS requirement without any exemptions		true
2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply)		false
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)		false
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions		false
Exemption Id.	Description	
,		
,		
,		

QueryList : ELV directive : 2000/53/EC amended 2020/363_March 2020		Response
1 - Product(s) meets EU ELV requirements without any exemptions		true
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)		false
Exemption Id.	Description	

QueryList : California Prop65 list, dated 17th Nov 2023			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			false
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			true
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.036	die	522
Lead	0.000		0
Lead-Borate Glass	0.000		0
Lead Zirconate Titanate	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0

QueryList : REACH-23rd January 2024				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
,				
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Embedded article nor Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in embedded article / Homogeneous material (mg)	Application - article / Homogeneous material	ppm in article /Homogeneous material
,			,	



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
The following metals are present is the component :	Gold, Tin, Tungsten,

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false

QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	false

Stockholm Convention Persistent Organic Pollutants	Response
Product is compliant with Stockholm Convention Persistent Organic Pollutants Annex I	true

QueryList : EUSRR Directive	Response
Product contains hazardous materials listed in EUSRR Annex II	False

PFAS/PTFE Declaration	Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene,Thiophenium, Triphenylsulfonium nonafflate, Trifluoroacetic anhydride	False

BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True

Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True

Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	BUDG*UBEEADS		68.9997		6000004.0	999994.0				
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)				
Die	M-011 Other inorganic materials	3.961	mg	supplier	die	Silicon(Si)	7440-21-3		3.479	mg	878314	50420				
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.011	mg	2777	159				
				supplier	metallisation	Copper(Cu)	7440-50-8		0.289	mg	72961	4188				
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.036	mg	9089	522				
				supplier	metallisation	Palladium(Pd)	7440-05-3		0.011	mg	2777	159				
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	505	29				
				supplier	metallisation	Tungsten(W)	7440-33-7		0.016	mg	4039	232				
				supplier	passivation	Silicon oxide	7631-86-9		0.063	mg	15905	913				
				supplier	polymer coating	polyimide	proprietary		0.054	mg	13633	783				
				Leadframe	M-004 Copper and its alloys	31.399	mg	supplier	alloy	Copper (Cu)	7440-50-8		30.548	mg	972901	442725
								supplier	alloy	Chromium(Cr)	7440-47-3		0.082	mg	2612	1188
								supplier	alloy	Tin(Sn)	7440-31-5		0.078	mg	2484	1130
								supplier	alloy	Zinc(Zn)	7440-66-6		0.063	mg	2006	913
supplier	metallization	Silver (Ag)	7440-22-4						0.628	mg	20001	9101				
Die attach	M-015 Other organic materials	1.932	mg					supplier	glue	Silver(Ag)	7440-22-4		1.588	mg	822000	23016
				supplier	glue	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl metha	7534-94-3		0.290	mg	150000	4200				
				supplier	glue	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	3006-93-7		0.034	mg	17500	490				
				supplier	glue	A mixture of: 4-allyl-2,6-bis (2,3-epoxypropyl)ph	Proprietary		0.010	mg	5000	140				
				supplier	glue	2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane	3388-04-3		0.010	mg	5000	140				
				supplier	glue	2-Methylhydroquinone	95-71-6		0.001	mg	500	14				
				Bonding wires	M-008 Precious metals	0.215	mg	supplier	wire	Gold (Au)	7440-57-5		0.214	mg	993988	3104
supplier	wire	Platinum(Pt)	7440-06-4						0.001	mg	6012	19				
Encapsulation	M-015 Other organic materials	28.765	mg	supplier	mold compound	Epoxy Resin	Proprietary		1.462	mg	50838	21194				
				supplier	mold compound	Phenol Resin	Proprietary		0.790	mg	27452	11445				
				supplier	mold compound	Silica (Amorphous)A	60676-86-0		24.963	mg	867822	361785				
				supplier	mold compound	Silica (Amorphous)B	7631-86-9		1.462	mg	50838	21194				
				supplier	mold compound	Carbon Black	1333-86-4		0.088	mg	3050	1272				
Connections coating	Solder	2.727	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.727	mg	1000000	39519				