



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*	2024-10-14
Authorized representative*	Floriana SAN BIAGIO	Representative title	APMS 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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
	LD6(*MLPFWL2	A	3068-SH1A	2024-10-14
Amount	Unit of measure	Unit type	ST ECOPACK grade	
3	mg	Each	ECOPACK® 3	
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony			

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles		
Not Applicable	Not Applicable	,		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
SACN125	Not Applicable	Not Applicable	0	
Package designator	Package Size	Number of instances	Shape	
WLB	1.54 x 1.94	5	Bulk solder	
Comment	6(CSPG 0.4; MDF is valid for MLPF-WL-02D3			

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	
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,		
,		

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

QueryList : California Prop65 list, dated 29th December 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	0.018	Die	7103
Lead	0.000		0
Lead-Borate Glass	0.000		0
Lead Zirconate Titanate (PZT)	0.000		0
Antimony trioxide	0.000		0
Bisphenol A	0.000		0
Gallium Arsenide	0.000		0

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014		Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products		false



2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products	false
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QueryList : REACH-27th June 2024				Response
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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 Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in homogeneous material (mg)	Application - homogeneous material	ppm in homogeneous material

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update				Response
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The Product does contain at least one of the substances listed in Chemical Control Act	false
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QueryList : Responsible metals sourcing				Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.				true

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

QueryList:Stockholm Convention Persistent Organic Pollutants (POP)				Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants				true

QueryList: EU Ship Recycling Regulation No. 1257/2013				Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive				False

PFAS/PTFE Declaration				Response
QUERY				Response
The product is containing at least one of the following PFAS substance: Polytetrafluoroethylene,Thiophenium, Triphenylsulfonium nonaflate, 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						Manufacturing item name	LD6(*MLPFWL2		2.5340		2999999.0	999999.0
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	1.851	mg	supplier	metallisation	Aluminium(Al)	7429-90-5		0.013	mg	7023	5130
				supplier	metallisation	Copper(Cu)	7440-50-8		0.271	mg	146407	106946
				supplier	metallisation	Gold(Au)	7440-57-5		0.009	mg	4862	3552
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.018	mg	9724	7103
				supplier	metallisation	Tantalum(Ta)	7440-25-7		0.015	mg	8104	5919
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.003	mg	1621	1184
				supplier	passivation	Silicon Oxide	7631-86-9		0.008	mg	4322	3157
				supplier	glass	Borosilicate glass	65997-17-3		1.470	mg	794165	580110
				supplier	polymer coating	Polymer resist - Benzocyclobutene (BCB)	694-87-1		0.044	mg	23771	17364
				Underfill	M-015 Other organic materials	0.382	mg	supplier	resin	Silica vitreous	60676-86-0	
supplier	resin	Epoxy type resin	proprietary						0.067	mg	175393	26440
supplier	resin	Acrylic type polymer	proprietary						0.067	mg	175393	26440
supplier	resin	Bisphenol A diglycidyl ether	25036-25-3						0.023	mg	60209	9077
supplier	resin	Carbon black	1333-86-4						0.002	mg	5236	789
supplier	resin	Iron compound	7439-89-6						0.019	mg	49738	7498
supplier	resin	Zinc compound	7440-66-6						0.019	mg	49738	7498
supplier	solder alloy	Tin(Sn)	7440-31-5						0.295	mg	980066	116417
Solder balls	Solder	0.301	mg	supplier	solder alloy	Silver(Ag)	7440-22-4		0.004	mg	13289	1579