



Material declaration form

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

Supplier Information			
Company name*	STMicroelectronics	Response Date*	2022-07-26
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
	1DO7*27025AW	A	64BA	2022-07-26
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	77	mg	Each	ECOPACK® 3

Manufacturing information			
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	
1	260	3	
Bulk solder termination	Terminal plating	Terminal base alloy	Comment
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	,

Package Designator	Package Size	Nbr of instances	Shape	
DSO	4.9 x 3.9	8	Gull wing	
Comment	DEC; MDF is valid for TS272AIDT and TS272ACDT and TS272CDT			



QueryList : RoHS Directive 2011/65/EU- 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015		Response
QUERY		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 : California Prop65 list, dated 25th Feb 2022			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			true
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			false
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.000		0
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-10 Jun 2022				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 :		Tin,

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		true
All the adhesive impacted complies with GB 33372		true

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



Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	1D07*27025AW		76.2740		5000000.0	997045.0
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	1.566	mg	supplier	die	Silicon(Si)	7440-21-3		1.527	mg	975096	19961
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.006	mg	3831	78
				supplier	Passivation	Silicon nitride(SiN)	12033-89-5		0.004	mg	2554	52
				supplier	passivation	Silicon oxide	7631-86-9		0.029	mg	18519	379
Leadframe	M-004 Copper and its alloys	28.765	mg	supplier	alloy	Copper(Cu)	7440-50-8		27.987	mg	972953	365843
				supplier	alloy	Iron(Fe)	7439-89-6		0.658	mg	22875	8601
				supplier	alloy	Iron phosphide	1310-43-6		0.040	mg	1391	523
				supplier	alloy	Zinc(Zn)	7440-66-6		0.035	mg	1217	458
				supplier	metallization	Silver (Ag)	7440-22-4		0.045	mg	1564	588
Bonding wires	M-004 Copper and its alloys	0.044	mg	supplier	wire	Copper(Cu)	7440-50-8		0.044	mg	1000000	575
Encapsulation	M-015 Other organic materials	45.181	mg	supplier	mold compound	Silica vitreous	60676-86-0		32.349	mg	715987	422863
				supplier	mold compound	Silicon oxide	7631-86-9		6.777	mg	149997	88588
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		3.389	mg	75009	44301
				supplier	mold compound	Phenol resin	26834-02-6		2.259	mg	49999	29529
				supplier	mold compound	Carbon black	1333-86-4		0.226	mg	5002	2954
supplier	mold compound	Bismuth compound	7440-69-9		0.181	mg	4006	2366				
Connections coating	Solder	0.718	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.718	mg	1000000	9386