



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2020-11-11
Company Unique ID	NL 008751171B01		
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 *	giovanni giacopello	Representative Title	ADG MD 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
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Legal Statement

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	Mfr Site	Date
SMA6T36CAY	AHSR*TYB036D	A	9941	2020-11-11
	Amount	UoM	Unit type	ST ECOPACK Grade
	70	mg	Each	ECOPACK 2
Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)			

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
Bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Not Applicable	Tin (Sn), matte, annealed	Copper Alloy	DM00690150	

Package Designator	Size	Nbr of instances	Shape	
Not Applicable	4.30,2.77,2.00	2	shape	
Comment	SMA			

QueryList : RoHS Directive 2011/65/EU-July 2011 Annex II amended by Delegated Directive 2015/863-March 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	FALSE
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	TRUE
Exemption Id.	Description
8e	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)

QueryList : California Prop65 list, dated 3rd January 2020			
Query			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	0.02	die	243
Lead	0.81	soft solder	11543

QueryList : REACH-25th June 2020				
Query				Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	amount in product (mg)	Application	ppm in product
Lead	1000 ppm	0.81	Soft solder	11543
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				FALSE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material
Lead	1000 ppm	0.808	Soft solder	924485

Responsible metals sourcing	
Query	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,
This product is in the scope of the responsible metals sourcing, its compliance is covered by our company processes .	

Material Composition Declaration :						Mfr Item Name	AHSR*TYB036D					
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	1.651	mg	supplier	die	Silicon(Si)	7440-21-3		1.573	mg	952757	22471
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.015	mg	9085	214
				supplier	metallisation	Gold(Au)	7440-57-5		0.009	mg	5451	129
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.017	mg	10297	243
				supplier	passivation	Silicon oxide	7631-86-9		0.009	mg	5451	129
				supplier	polymer coating	Durimide	proprietary		0.028	mg	16959	400
Leadframe & clip	M-004 Copper and its alloys	26.885	mg	supplier	alloy & coating	Copper(Cu)	7440-50-8		26.872	mg	999516	383886
				supplier	alloy & coating	Iron(Fe)	7439-89-6		0.003	mg	112	43
				supplier	alloy & coating	Phosphorus metal	7723-14-0		0.009	mg	335	129
				supplier	alloy & coating	Zinc(Zn)	7440-66-6		0.001	mg	37	14
Soft solder	Solder	0.874	mg	SVHC	solder	Lead(Pb)	7439-92-1	7a-Lead in high melting temper	0.808	mg	924485	11543
				supplier	solder	Tin(Sn)	7440-31-5		0.044	mg	50343	629
				supplier	solder	Silver(Ag)	7440-22-4		0.022	mg	25172	314
Encapsulation	M-011 Other inorganic materials	39.949	mg	supplier	mold compound	Amorphous silica	60676-86-0		29.761	mg	744975	425157
				supplier	mold compound	quartz	14808-60-7		0.400	mg	10013	5714
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		5.992	mg	149991	85600
				supplier	mold compound	Phenol resin	9003-35-4		3.196	mg	80002	45657
				supplier	mold compound	metal hydroxide	proprietary		0.400	mg	10013	5714
				supplier	mold compound	phosphorus compound	un-defined		0.040	mg	1001	571
connections coating	Solder	0.641	mg	supplier	mold compound	Carbon black	1333-86-4		0.160	mg	4005	2286
				supplier	solder alloy	Tin (Sn)	7440-31-5		0.641	mg	1000000	9157