



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D <i>* : Required Field</i>

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-11-22
Contact Name *	Refer to Supplier Comment section		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
STPSC8H065CT	HSDZ*923D1T6	A	3068	2017-11-22
Amount	UoM	Unit type	ST ECOPACK Grade	
1900.00	mg	Each	ECOPACK2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NA	NA	NA		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	10-9.1-4.5	3	THROUGH HOLE	
Comment	TO 220 AB NON ISOL			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 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)

Query : California Prop65 list, dated 27th January 2017			
Query			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	0.50	Die - Leadframe	262
Lead	1.30	Soft solder	684

QueryList : REACH-12th January 2017				
Query				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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	HSDZ*923D1T6					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	2.099	mg	supplier	die	Silicium carbide	409-21-2		2.048	mg	975703	1078
				supplier	metallization	Aluminium (Al)	7429-90-5		0.012	mg	5717	6
				supplier	metallization	Gold (Au)	7440-57-5		0.002	mg	953	1
				supplier	metallization	Silver (Ag)	7440-22-4		0.020	mg	9528	11
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	476	1
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	476	1
				supplier	back side metallization	Gold (Au)	7440-57-5		0.002	mg	954	1
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.008	mg	3811	4
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.005	mg	2382	3
				supplier	alloy	Copper (Cu)	7440-50-8		1251.375	mg	998278	658618
Leadframe	Copper & its alloys	1253.534	mg	supplier	alloy	Iron (Fe)	7439-89-6		1.253	mg	1000	659
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.376	mg	300	198
				supplier	metallization	Nickel (Ni)	7440-02-0		0.490	mg	390	258
				supplier	metallization	Phosphorus (P)	12185-10-3		0.040	mg	32	21
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high met	1.300	mg	955180	684
				supplier	solder	Silver (Ag)	7440-22-4		0.034	mg	24982	18
Soft solder	Solder	1.361	mg	supplier	solder	Tin (Sn)	7440-31-5		0.027	mg	19838	14
				supplier	wire	Aluminium (Al)	7429-90-5		2.647	mg	1000000	1394
				supplier	mold compound	Silica, vitreous	60676-86-0		551.577	mg	870000	290304
Bonding wires	Other inorganic materials	2.647	mg	supplier	wire	Aluminium (Al)	7429-90-5		2.647	mg	1000000	1394
				supplier	mold compound	Epoxy resin	25068-38-6		63.400	mg	100000	33368
				supplier	mold compound	Phenol resin	29690-82-2		15.850	mg	25000	8342
Encapsulation	Other Organic Materials	633.997	mg	supplier	mold compound	Carbon Black	1333-86-4		3.170	mg	5000	1668
				supplier	mold compound	Tin (Sn)	7440-31-5		6.362	mg	1000000	3348
Connections coating	Solder	6.362	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.362	mg	1000000	3348