



Materials Declaration Form

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

*: Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2018-01-25
Contact Name *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Authorized Representative *	Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	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
STPSC10H12G-TR	HSD2*HC151T7	A	3068	2018-01-25
Amount	UoM	Unit type	ST ECOPACK Grade	
1380	mg	Each	ECOPACK2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	245	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape
SIP	10.2-9.15-4.5	2	gull wing
Comment	D2PAK		

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)

QueryList : California Prop65 list, dated 15th December 2017			
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	0.14	Die / Leadframe	99
Lead	3.67	Soft solder	2661

QueryList : REACH-15th January 2018				
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
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

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr item Name	HSD2*HC15177					
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	3.760	mg	supplier	die	Silicium carbide	409-21-2		3.560	mg	946809	2580
				supplier	metallization	Aluminium (Al)	7429-90-5		0.040	mg	10638	29
				supplier	metallization	Gold (Au)	7440-57-5		0.006	mg	1596	4
				supplier	metallization	Nickel (Ni)	7440-02-0		0.032	mg	8510	23
				supplier	metallization	Silver (Ag)	7440-22-4		0.068	mg	18085	49
				supplier	metallization	Titanium (Ti)	7440-32-6		0.002	mg	532	1
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.002	mg	532	1
				supplier	back side metallization	Gold (Au)	7440-57-5		0.006	mg	1596	4
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.027	mg	7181	20
				supplier	polymer die coating	PIX1 Gamma-butyrolactone	96-48-0		0.017	mg	4521	12
Leadframe	M-004 Copper and its alloys	778.633	mg	supplier	alloy	Copper (Cu)	7440-50-8		777.537	mg	998592	563433
				supplier	alloy	Iron (Fe)	7439-89-6		0.779	mg	1000	564
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.234	mg	301	170
				supplier	metallization	Nickel (Ni)	7440-02-0		0.077	mg	99	56
				supplier	metallization	Phosphorus (P)	7723-14-0		0.006	mg	8	4
Soft solder	Solder	3.845	mg	IIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	3.672	mg	955007	2661
				supplier	solder	Silver (Ag)	7440-22-4		0.096	mg	24967	70
				supplier	solder	Tin (Sn)	7440-31-5		0.077	mg	20026	56
				supplier	wire	Aluminium (Al)	7429-90-5		2.894	mg	1000000	2097
Bonding wires	M-011 Other inorganic materials	2.894	mg	supplier	silica	Silica, vitreous	60676-86-0		514.832	mg	875001	373067
				supplier	mold compound	Tetramethyl-biphenyl-diyl-bis oxymethylene-bis	EC 413-900-7		23.535	mg	40000	17054
				supplier	mold compound	Epoxy Resin	25068-38-6		17.651	mg	29999	12791
				supplier	mold compound	phenol resin	29690-82-2		29.419	mg	50000	21318
				supplier	mold compound	Carbon black	1333-86-4		2.942	mg	5000	2132
Connections coating	Solder	2.489	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		2.489	mg	1000000	1804