



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 *	2017-01-17
Contact Name *	Refer to Supplier Comment section		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
Legal Statement	<p>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 omprehensive 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.</p>

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STPSC806D	HSDK*DC041T6	A	3068	2017-01-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	1870.00	mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
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	10.2-16.25-4.5	2	Through-hole	
Comment	DO 220			

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 : REACH-20th June 2016				
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	HSDK*DC041T6					
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	3.959		supplier	die	Silicium carbide	409-21-2		3.142	mg	793635	1680
				supplier	metallization	Aluminium (Al)	7429-90-5		0.771	mg	194746	412
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	252	1
				supplier	back side metallization	Gold (Au)	7440-57-5		0.003	mg	758	2
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.013	mg	3284	7
				supplier	polymer die coating	Polyimide AH 1200	Proprietary		0.029	mg	7325	16
Leadframe	Copper & its alloys	1184.408	mg	supplier	alloy	Copper (Cu)	7440-50-8		1182.770	mg	998617	632497
				supplier	alloy	Iron (Fe)	7439-89-6		1.184	mg	1000	633
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.355	mg	300	190
				supplier	metallization	Nickel (Ni)	7440-02-0		0.092	mg	77	49
				supplier	metallization	Phosphorus (P)	12185-10-3		0.007	mg	6	4
				supplier	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	1.934	mg	954590	1032
Soft solder	Solder	2.026	mg	JIG - R	solder	Silver (Ag)	7440-22-4		0.051	mg	25173	27
				supplier	solder	Tin (Sn)	7440-31-5		0.041	mg	20237	22
				supplier	wire	Aluminium (Al)	7429-90-5		1.385	mg	1000000	741
Encapsulation	Other Organic Materials	673.981	mg	supplier	mold compound	Silica, vitreous	60676-86-0		586.363	mg	869999	313563
				supplier	mold compound	Epoxy resin	25068-38-6		67.398	mg	100000	36042
				supplier	mold compound	Phenol resin	29690-82-2		16.850	mg	25001	9011
				supplier	mold compound	Carbon Black	1333-86-4		3.370	mg	5000	1802
Connections coating	Solder	4.241	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.241	mg	1000000	2268