



## Materials Declaration Form

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

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2015-08-06
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<b>Representative Title</b>	IPD MD Champion
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty Statement**

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Legal Statement			
<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	Standard
<b>Legal Statement</b>	<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 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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
STTH1212D	HSDK*180R01G	A	SHENZHEN B/E	2015-08-06
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		
NAC	NAC	NAC		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Copper Alloy		



Package Designator	Size	Nbr of instances	Shape	
SIP	10.2, 16.25, 4.5	2	THROUGH HOLE	
Comment	Package: DO 220			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	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-15th June 2015				
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						Mfr Item Name	HSDK*180R01G					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or Dies	Other inorganic materials	6.081	mg	supplier	die	Silicon (Si)	7440-21-3		5.871	mg	965472	3140
				supplier	metallization	Aluminium (Al)	7429-90-5		0.073	mg	12003	39
				supplier	Passivation	Silicon Oxide	7631-86-9		0.024	mg	3946	13
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.003	mg	493	2
				supplier	back side metallization	Gold (Au)	7440-57-5		0.009	mg	1480	5
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.040	mg	6577	21
				supplier	polymer die coating	Prohimide	proprietary		0.061	mg	10030	33
				supplier	alloy	Copper (Cu)	7440-50-8		1182.771	mg	998701	632498
Leadframe	Copper & its alloys	1184.310	mg	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
				JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	5.423	mg	954922	2900
Soft solder	Solder	5.679	mg	supplier	solder	Silver (Ag)	7440-22-4		0.142	mg	25004	76
				supplier	solder	Tin (Sn)	7440-31-5		0.114	mg	20074	61
				supplier	wire	Aluminium (Al)	7429-90-5		2.463	mg	1000000	1317
				supplier	wire	Aluminium (Al)	7429-90-5		2.463	mg	1000000	1317
Encapsulation	Other Organic Materials	667.226	mg	supplier	mold compound	Silica, vitreous	60676-86-0		580.486	mg	869999	310420
				supplier	mold compound	Epoxy resin	25068-38-6		66.723	mg	100001	35681
				supplier	mold compound	Phenol resin	29690-82-2		16.681	mg	25001	8920
				supplier	mold compound	Carbon Black	1333-86-4		3.336	mg	5000	1784
Connections coating	Solder	4.241	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.241	mg	1000000	2268