



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 *	2015-06-03
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	Representative Title	IPD MD Champion
Representative Phone *	Refer to Supplier Comment section		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
	HTDK*D40S11G	A	SHENZHEN B/E	2015-06-03
Amount	UoM	Unit type	ST ECOPACK Grade	
1950	mg	Each	ECOPACK2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
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, MD valid for CP:STTH12R06D.			

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-17th December 2014

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	HTDK*D40511G					
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 (choose)	Other inorganic materials	10.344	mg	supplier	die	Silicon (Si)	7440-21-3		10.150	mg	981243	5205
				supplier	metallization	Aluminium (Al)	7429-90-5		0.059	mg	5704	30
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.003	mg	290	2
				supplier	back side metallization	Gold (Au)	7440-57-5		0.010	mg	967	5
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.048	mg	4641	25
Leadframe	Copper & its alloys	1184.310	mg	supplier	polymer die coating	Durimide	proprietary		0.074	mg	7155	38
				supplier	alloy	Copper (Cu)	7440-50-8		1182.771	mg	998701	606549
				supplier	alloy	Iron (Fe)	7439-89-6		1.184	mg	1000	607
Soft solder	Solder	7.022	mg	supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.355	mg	300	182
				JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	6.706	mg	954999	3439
				supplier	solder	Silver (Ag)	7440-22-4		0.176	mg	25064	90
Bonding wires	Other inorganic materials	2.025	mg	supplier	solder	Tin (Sn)	7440-31-5		0.140	mg	19937	72
				supplier	wire	Aluminium (Al)	7429-90-5		2.025	mg	1000000	1038
Encapsulation	Other Organic Materials	742.058	mg	supplier	mold compound	Silica, vitreous	60676-86-0		645.591	mg	870001	331072
				supplier	mold compound	Epoxy resin	Proprietary		74.206	mg	100000	38054
				supplier	mold compound	Phenol resin	Proprietary		18.551	mg	24999	9513
				supplier	mold compound	Carbon Black	1333-86-4		3.710	mg	5000	1903
connections coating	Solder	4.241	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.241	mg	1000000	2175