



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 *	2016-05-23
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giovanni Giacobello	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
STTH1R02U	HNZI*C94F814	A	ZA41	2016-05-23
Amount	UoM	Unit type	ST ECOPACK Grade	
98.00	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SOJ	4.50X2.16X3.68	1	J bend	
Comment	Package: SMB CLIP (SOD 6 NEW)			

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 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	HNZJ*C94F814					
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	1.074	mg	supplier	die	Silicon (Si)	7440-21-3		0.939	mg	874302	9582
				supplier	metallization	Aluminium (Al)	7429-90-5		0.108	mg	100559	1102
				supplier	Passivation	Silicon Oxide	7631-86-9		0.009	mg	8380	92
				supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	931	10
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.006	mg	5587	61
				supplier	polymer die coating	Prohimide	proprietary		0.011	mg	10242	112
Leadframe & Clip	Copper and its alloy	40.750	mg	Supplier	Alloy	Copper (Cu)	7440-50-8		40.730	mg	999509	415612
				Supplier	Alloy	Zinc (Zn)	7440-66-6		0.002	mg	49	20
				Supplier	Alloy	Iron (Fe)	7439-89-6		0.004	mg	98	41
				Supplier	Alloy	Iron Phosphide(FeP)	26508-33-8		0.014	mg	344	143
Die attach	Other organic material	2.315	mg	Supplier	soft solder	Silver (Ag)	7440-22-4		0.058	mg	25054	592
				Supplier	soft solder	Tin (Sn)	7440-31-5		0.115	mg	49676	1173
				JIG R	soft solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	2.142	mg	925270	21857
Encapsulation	Other organic material	52.924	mg	Supplier	Molding Compound	silica fused	7631-86-9		39.162	mg	739967	399612
				Supplier	Molding Compound	silica quartz	14808-60-7		10.585	mg	200004	108010
				Supplier	Molding Compound	phenolic resin	9003-35-4		2.647	mg	50015	27010
				Supplier	Molding Compound	carbon black	1333-86-4		0.530	mg	10014	5408
Finishing	Other inorganic material	0.937	mg	Supplier	connection coating	Tin (Sn)	7440-31-5		0.937	mg	1000000	9561