



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 *	12/02/2014
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Giuseppe Vitali Palma	Representative Title	AMS/IPD Materials Declaration 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/internet/com/support/online_tech_support.jsp		

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
	CCFP*VJL0B53	A	LGGA	12/02/2014
Amount	UoM	Unit type	ST ECOPACK Grade	
1900.00	mg	Each	ECOPACK® 2	

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	
Not Applicable ; if coating is used o	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	4.5X16.1X10.2	2	Through-hole	
Comment	PACKAGE: TO 220 ISO FULL PACK IN LINE; MD valid for STF2N95K5			

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	false
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
Product(s) meets EU RoHS requirements by application of the selected exemption(s)	true
Product(s) does not meet EU RoHS requirements and is not under exemptions	false
Product(s) is obsolete, no information is available	false
Product(s) is unknown, no information is available	false
Exemption Id.	Description
JIG R	7a-Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : REACH-16th June 2014				
Query				Response
The product 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	CCFP*VJL0B53					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
die (s)	Other inorganic materials	2.582	mg	supplier	die	Silicon (Si)	7440-21-3		2.492	mg	965143	1312
				supplier	metallization	Aluminium (Al)	7429-90-5		0.035	mg	13555	18
				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.012	mg	4648	6
						Silicon Oxide(SiO2)	7631-86-9		0.019	mg	7359	10
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.001	mg	387	1
						Silver (Ag)	7440-22-4		0.006	mg	2324	3
						Nickel (Ni)	7440-02-0		0.017	mg	6584	9
Leadframe	Copper & its alloys	708.244	mg	supplier	alloy	Copper (Cu)	7440-50-8		707.323	mg	998700	572275
						Iron (Fe)	7439-89-6		0.326	mg	460	172
						Iron Phosphide (FeP)	26508-33-8		0.595	mg	840	313
Soft solder	Other organic materials	2.328	mg	JIG R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	2.223	mg	954897	1170
				supplier	solder	Silver (Ag)	7440-22-4		0.058	mg	24914	31
Bonding wire	Other inorganic materials	0.138	mg	supplier	wire	Tin (Sn)	7440-31-5		0.047	mg	20189	25
				supplier		Copper (Cu)	7440-50-8		0.138	mg	1000000	73
encapsulation	Other organic materials	1182.467	mg	supplier	mold compound	Silica, vitreous	60676-86-0		88.685	mg	75000	46676
						Quartz	14808-60-7		827.727	mg	700000	435646
						Epoxy resin	Proprietary		165.545	mg	140000	87129
						phenol resin	Proprietary		82.773	mg	70000	43565
						carbon black	1333-86-4		5.912	mg	5000	3112
						metal hydroxide	Proprietary		11.825	mg	10000	6224
connections coating	Other inorganic materials	4.241	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		4.241	mg	1000000	2232