



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2015-02-13
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 *	Giovanni Giacopello	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

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.


Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
------------------------------	------	----------------------------	----------

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
	7GUI*206HOM2	A	SH1A	2015-02-13
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	3		
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	10.20,16.25,4.5	3	Through-hole	
Comment	Package: TO 220 ISOL FULL PACK 0.5 AB; MDF valid for TN2015H-6FP			

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
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)
7c-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices

QueryList : REACH-17th December 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	7GUI*206HOM2					
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	5.448	mg	supplier	die	Silicon (Si)	7440-21-3		5.648	mg	875931	2973
die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.165	mg	25589	87
die (s)				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.094	mg	14578	49
die (s)				supplier	passivation	Alumina	1344-28-1		0.046	mg	7134	24
die (s)				JIG - R	passivation	Lead silicate Glass	65997-18-4	7c-I-Electrical and e	0.413	mg	64051	217
die (s)				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.027	mg	4187	14
die (s)				supplier	back side metallization	Gold (Au)	7440-57-5		0.01	mg	1551	5
die (s)				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.045	mg	6979	24
Leadframe	Copper & its alloys	609.675	mg	supplier	alloy	Copper (Cu)	7440-50-8		600.023	mg	984169	315802
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		0.276	mg	453	145
Leadframe				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.505	mg	828	266
Leadframe				supplier	metallization	Nickel (Ni)	7440-02-0		8.816	mg	14460	4640
Leadframe				supplier	metallization	Phosphorus (P)	12185-10-3		0.055	mg	90	29
Soft solder	Solder	3.358	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	3.14	mg	935080	1653
Soft solder				supplier	solder	Silver (Ag)	7440-22-4		0.05	mg	14890	26
Soft solder				supplier	solder	Tin (Sn)	7440-31-5		0.168	mg	50030	88
Bonding wire	Other inorganic materials	1.359	mg	supplier	wire	Aluminium (Al)	7429-90-5		1.359	mg	1000000	715
encapsulation	Other Organic Materials	1273.294	mg	supplier	mold compound	Silica, vitreous	7631-86-9		926.958	mg	728000	487873
encapsulation				supplier	mold compound	Epoxy resin	Proprietary		267.392	mg	210000	140733
encapsulation				supplier	mold compound	Phenolic resin	9003-35-4		63.664	mg	49999	33507
encapsulation				supplier	mold compound	Carbon black	1333-86-4		6.367	mg	5000	3351
encapsulation				supplier	mold compound	Zinc borate	138265-88-0		8.913	mg	7000	4691
connections coating	Solder	5.866	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		5.866	mg	1000000	3087