



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 *	2015-11-11
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 *	Antonella Lanzafame	Representative Title	IPD 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
	7BVT*126SBM1	A	SH1A	2015-11-11
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	
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	10,15,5,4,5	3	Through-hole	
Comment	Package: TO 220 I CLIP,MD valid for CP:T1235H-6I.			

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-1	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices

QueryList : REACH-15th June 2015			
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	7BVT*1265BM1	1900				
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	7.752	mg	supplier	die	Silicon (Si)	7440-21-3		6.835	mg	881708	3597
Die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.063	mg	8127	33
Die (s)				supplier	metallization	Nickel (Ni)	7440-02-0		0.087	mg	11223	46
Die (s)				supplier	metallization	Gold (Au)	7440-57-5		0.019	mg	2451	10
Die (s)				supplier	passivation	Alumina	1344-28-1		0.055	mg	7095	29
Die (s)				supplier	passivation	Lead silicate Glass	65997-18-4	7c-I-Electrical and	0.498	mg	64241	262
Die (s)				supplier	back side metallization	Gold (Au)	7440-57-5		0.009	mg	1161	5
Die (s)				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.186	mg	23994	98
Leadframe	Copper & its alloys	1604.52	mg	supplier	alloy	Copper (Cu)	7440-50-8		1599.134	mg	996643	841649
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		0.737	mg	459	388
Leadframe				supplier	alloy	Iron Phosphide (Fe2P)	1310-43-6		1.345	mg	838	708
Leadframe				supplier	metallization	Nickel (Ni)	7440-02-0		3.304	mg	2059	1739
Soft solder	Solder	5.438	mg	JIG R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	5.03	mg	924972	2647
Soft solder				supplier	solder	Silver (Ag)	7440-22-4		0.272	mg	50018	143
Soft solder				supplier	solder	Tin (Sn)	7440-31-5		0.136	mg	25009	72
Bonding wire		31.625		supplier	Slug + Trigger	Copper (Cu)	7440-50-8		31.625	mg	1000000	16645
Encapsulation	Other Organic Materials	155.075	mg	supplier	mold compound	Silica, vitreous	60676-86-0		117.858	mg	760006	62031
Encapsulation				supplier	mold compound	Phenol resin	9003-35-4		9.305	mg	60003	4897
Encapsulation				supplier	mold compound	Carbon black	1333-86-4		1.24	mg	7996	653
Encapsulation				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		15.817	mg	101996	8325
Encapsulation				supplier	mold compound	Metal hydroxide	21645-51-2		3.101	mg	19997	1632
Encapsulation				supplier	mold compound	Others	Proprietary		7.754	mg	50002	4081
Solder paste	Solder	0.076	mg	supplier	solder	Lead (Pb)	7439-92-1		0.064	mg	842105	34
Solder paste				supplier		Antimony (Sb)	7440-36-0		0.008	mg	105263	4
Solder paste				supplier		Tin (Sn)	7440-31-5		0.004	mg	52632	2
Connections coating	Other inorganic materials	6.314	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.314	mg	1000000	3323
Subelement	Ceramics / Glass	89.2	mg	supplier	Ceramic isolator	Nickel (Ni)	7440-02-0		1.07	mg	11996	563
Subelement				supplier	Ceramic isolator	Phosphorus (P)	7723-14-0		0.08	mg	897	42
subelement				supplier	Ceramic isolator	Manganese (Mn)	7439-96-5		3.479	mg	39002	1831
subelement				supplier	Ceramic isolator	Titanium (Ti)	7440-32-6		0.366	mg	4103	193
subelement				supplier	Ceramic isolator	Molybdenum oxide	1313-27-5		4.46	mg	50000	2347
subelement				supplier	Ceramic isolator	Alumina (Al2O3)	1344-28-1		79.745	mg	894002	41971