



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 *	2013-11-26
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	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
	KDQA*EM2T14C	A	SH1A	2013-11-26
Amount	UoM	Unit type	ST ECOPACK Grade	
1.80	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
NAC	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper (SAC305)	NAC	NAC		

Package Designator	Size	Nbr of instances	Shape	
BGA	1.36,1.02,0.40	5	flat	
Comment	CSPSO.5 4-6; MD valid for CP: EMIF02-SPK02F2.			

QueryList : ROHS directive 2011/65/EU _ July 2011	
Query	Response
Product(s) meets EU RoHS requirement without any exemptions	true
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

QueryList :REACH-20th June 2013				
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	KDQA*EM2T14C					
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	1.466	mg	supplier	die	Silicon (Si)	7440-21-3		1.447	mg	987040	803889
die (s)				supplier	metallization	Copper (Cu)	7440-50-8		0.007	mg	4775	3889
die (s)				supplier	metallization	Titanium (Ti)	7440-32-6		0.003	mg	2046	1667
die (s)				supplier	metallization	Nickel (Ni)	7440-02-0		0.007	mg	4775	3889
die (s)				supplier	metallization	Gold (Au)	7440-57-5		0.002	mg	1364	1111
UBM				supplier	UBM	Copper (Cu)	7440-50-8		0.001	mg	142857	556
UBM				supplier	UBM	Titanium (Ti)	7440-32-6		0.001	mg	142857	556
UBM				supplier	UBM	Gold (Au)	7440-57-5		0.001	mg	142857	556
UBM				supplier	UBM	Nickel (Ni)	7440-02-0		0.004	mg	571429	2222
BUMPS	Solder	0.327	mg	supplier	bump	Tin (Sn)	7440-31-5		0.315	mg	963303	175000
BUMPS				supplier	bump	Silver (Ag)	7440-22-4		0.01	mg	30581	5556
BUMPS				supplier	bump	Copper (Cu)	7440-50-8		0.002	mg	6116	1111