



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 *	2014-05-26
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 *	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
	8HZK*TWU036K	A	ZA41	2014-05-26
\	Amount	UoM	Unit type	ST ECOPACK Grade
	237.058	mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	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	
SOJ	6.88X5.97X2.15	N/A	J bend	
Comment	Package: SMC CLIP (SOD 15 NEW); MD also valid for SMCJ30A			

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)

QueryList : REACH-16th December 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	8HZK*TWU036K					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Silicon Die	Other inorganic materials	3.558	mg		Silicon Die	silicon	7440-21-3		3.5	mg	983699	14764
Silicon Die					Back side metallization	Aluminium (Al)	7429-90-5		0.02	mg	5621	84
Silicon Die					Back side metallization	Gold (Au)	7440-57-5		0.007	mg	1967	30
Silicon Die					Back side metallization	Nickel (Ni)	7440-02-0		0.031	mg	8713	131
Lead-frame & clip	Copper & its alloys	88.2	mg		Alloy	Cu	7440-50-8		88.157	mg	999512	371879
Lead-frame & clip					Alloy	Zn	7440-66-6		0.004	mg	45	17
Lead-frame & clip					Alloy	Fe	7439-89-6		0.009	mg	102	38
Lead-frame & clip					Alloy	Iron Phosphide(FeP)	26508-33-8		0.03	mg	340	127
Die Attach	Other Organic Materials	4.2	mg		Solder	Ag	7440-22-4		0.105	mg	25000	443
Die Attach					Solder	Sn	7440-31-5		0.21	mg	50000	886
Die Attach				JIG R	Solder	Lead	7439-92-1	7a-Lead in high me	3.885	mg	925000	16388
Encapsulation	Other Organic Materials	139	mg		Molding Compound	silica fused	7631-86-9		96.605	mg	695000	407516
Encapsulation					Molding Compound	silica quartz	14808-60-7		30.58	mg	220000	128998
Encapsulation					Molding Compound	phenolic resin	9003-35-4		11.12	mg	80000	46908
Encapsulation					Molding Compound	carbon black	1333-86-4		0.695	mg	5000	2932
Finishing	Other inorganic materials	2.1	mg		Connection coating	Sn	7440-31-5		2.1	mg	1000000	8859