



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 *	2014-11-11
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	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
	IDK7*0084BH6	A	BO2A	2014-11-11
Amount	UoM	Unit type	ST ECOPACK Grade	
134.10	mg	Each	ECOPACK® 2	

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
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	
DSO	3,9,8,65,1,37	14	gull wing	
Comment	SO 14 .15 TO JEDEC MS-012; MD valid for CP: TL084IYDT.			

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)	false
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-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	IDK7*0084BH6					
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	2.401	mg	supplier	die	Silicon (Si)	7440-21-3		2.359	mg	982507	17591
die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.02	mg	8330	149
die (s)				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.01	mg	4165	75
die (s)				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.012	mg	4998	89
Leadframe	Copper & its alloys	34.885	mg	supplier	alloy	Copper (Cu)	7440-50-8		33.847	mg	970245	252401
Leadframe				supplier	alloy	Iron (Fe)	7439-89-6		0.796	mg	22818	5936
Leadframe				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.048	mg	1376	358
Leadframe				supplier	alloy	Zinc (Zn)	7440-66-6		0.042	mg	1204	313
Leadframe				supplier	metallization	Nickel (Ni)	7440-02-0		0.139	mg	3985	1037
Leadframe				supplier	metallization	Palladium (Pd)	7440-05-3		0.005	mg	143	37
Leadframe				supplier	metallization	Gold (Au)	7440-57-5		0.004	mg	115	30
Leadframe				supplier	metallization	Silver (Ag)	7440-22-4		0.004	mg	115	30
Soft solder	Solder	0.809	mg	supplier	solder	Silver (Ag)	7440-22-4		0.737	mg	911001	5496
Soft solder				supplier	solder	acrylate	Proprietary		0.04	mg	49444	298
Soft solder				supplier	solder	Methacrylate	Proprietary		0.032	mg	39555	239
Bonding wire	Other inorganic materials	0.077	mg	supplier	wire	Copper (Cu)	7440-50-8		0.077	mg	1000000	574
encapsulation	Other Organic Materials	95.028	mg	supplier	mold compound	Silver (Ag)	7440-22-4		86.475	mg	909995	644855
encapsulation				supplier	mold compound	acrylate	Proprietary		4.752	mg	50006	35436
encapsulation				supplier	mold compound	Methacrylate	Proprietary		3.801	mg	39999	28345
connections coating	Solder	0.9	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.9	mg	1000000	6711