



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 *	2016-12-12
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Floriana San Biagio	Representative Title	AMG 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
	IDK7*0934ARY	A	BO2A	2016-12-12
Amount	UoM	Unit type	ST ECOPACK Grade	
130.00	mg	Each	ECOPACK® 3	
	Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony		

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	
NAC	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	8.6x3.9x1.52	14	gull wing	
Comment	Package: K7 SO 14 .15 TO JEDEC MS-012; MDF valid for TS934IYDT-TS934AIYDT			

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015	
Query	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	TRUE
2 - 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
3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	FALSE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description

QueryList : REACH-20th June 2016				
Query				Response
1 - Product(s) 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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	IDK7*0934ARY					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	Other inorganic materials	3.015	mg	supplier	die	Silicon (Si)	7440-21-3		2.990	mg	991708	23000
				supplier	metallization	Aluminium (Al)	7429-90-5		0.011	mg	3648	85
				supplier	Passivation	Silicon Nitride	12033-89-5		0.008	mg	2653	62
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	1990	46
Leadframe	Copper & its alloys	37.092	mg	supplier	alloy	Copper (Cu)	7440-50-8		35.998	mg	970506	276908
				supplier	alloy	Iron (Fe)	7439-89-6		0.847	mg	22835	6515
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.051	mg	1375	392
				supplier	alloy	Zinc (Zn)	7440-66-6		0.044	mg	1186	338
				supplier	metallization	Nickel (Ni)	7440-02-0		0.139	mg	3747	1069
				supplier	metallization	Palladium (Pd)	7440-05-3		0.005	mg	135	38
				supplier	metallization	Gold (Au)	7440-57-5		0.004	mg	108	31
				supplier	metallization	Silver (Ag)	7440-22-4		0.004	mg	108	31
Die attach	Other Organic Materials	1.080	mg	supplier	glue	Silver (Ag)	7440-22-4		0.948	mg	877778	7292
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.054	mg	50000	415
				supplier	glue	Urethane Methacrylate Resin	5888-33-5		0.054	mg	50000	415
				supplier	glue	Acrylate polymer	87320-05-6		0.022	mg	20370	169
				supplier	glue	Epoxyoctahydroxyethyltrimethoxysilane	3388-04-3		0.001	mg	926	8
				supplier	glue	tert-Butyl peroxy(2-ethyl)-hexanoate	3006-82-4		0.001	mg	926	8
Bonding wires	Other inorganic materials	0.114	mg	supplier	wire	Copper (Cu)	7440-50-8		0.114	mg	1000000	877
Encapsulation	Other Organic Materials	88.699	mg	supplier	mold compound	Silica, vitreous	60676-86-0		76.813	mg	865996	590869
				supplier	mold compound	Epoxy Resin	Proprietary		6.652	mg	74995	51169
				supplier	mold compound	Phenol Resin	Proprietary		4.435	mg	50001	34115
				supplier	mold compound	Carbon black	1333-86-4		0.444	mg	5006	3415
				supplier	mold compound	Bismuth compound	7440-69-9		0.355	mg	4002	2731