



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 *	2014-09-04
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
	FDO7*V912ARL	A	BO2A	2014-09-04
Amount	UoM	Unit type	ST ECOPACK Grade	
77.50	mg	Each	ECOPACK® 1	

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		
Not Applicable ; if coating is used o	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	4.85X3.9X1.52	8	gull wing	
Comment	PACKAGE: SO 08 .15 JEDEC; MD for product TSV912AIDT, TSV912IDT			

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	F07*V912ARL					
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	0.795	mg	supplier	die	Silicon (Si)	7440-21-3		0.768	mg	966038	9910
				supplier	metallization	Aluminium (Al)	7429-90-5		0.007	mg	8805	90
						Titanium (Ti)	7440-32-6		0.001	mg	1258	13
						Tungsten (W)	7440-33-7		0.001	mg	1258	13
				supplier	passivation	Silicon Nitride (SiN)	68034-42-4		0.002	mg	2516	26
						Silicon Oxide(SiO2)	7631-86-9		0.016	mg	20126	206
Leadframe	Copper & its alloys	34.518	mg	supplier	alloy	Copper (Cu)	7440-50-8		34.426	mg	997335	444206
						Iron (Fe)	7439-89-6		0.016	mg	464	206
						Iron Phosphide (FeP)	26508-33-8		0.029	mg	840	374
				supplier	metallization	Nickel (Ni)	7440-02-0		0.044	mg	1275	568
						Palladium (Pd)	7440-05-3		0.001	mg	29	13
						Gold (Au)	7440-57-5		0.001	mg	29	13
						Silver (Ag)	7440-22-4		0.001	mg	29	13
Die attach	Other Organic Materials	0.261	mg	supplier	glue	Silver (Ag)	7440-22-4		0.196	mg	750958	2529
						Epoxy Cresol Novolak	29690-82-2		0.064	mg	245211	826
						1-Isopropyl-2,2-dimethyltrimethylene diisobut	6846-50-0		0.001	mg	3831	13
						Gold (Au)	7440-57-5		0.116	mg	1000000	1497
encapsulation	Other Organic Materials	41.81	mg	supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		4.181	mg	100000	53948
						phenol resin	9003-35-4		2.091	mg	50012	26981
						Carbon Black	1333-86-4		0.418	mg	9998	5394
						Silica, vitreous	60676-86-0		33.448	mg	800000	431587
						Antimony Trioxide	1309-64-4		0.836	mg	19995	10787
		JIG I	mold compound	Brominated epoxy resin	68928-70-1		0.836	mg	19995	10787		