



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 *	2014-02-17
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 *	Emilio Castelli	Representative Title	APG 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/online_tech_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
TDA7718BTR	AAYM*A291BB6	A	ZY1A	2014-02-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	117.00	mg	Each	ECOPACK® 2

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

Package Designator	Size	Nbr of instances	Shape	
CHP	4.4x9.7x1	28	Flat	
Comment				

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 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	AAYM*A291BB6					
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	6.725	mg	supplier	die	Silicon (Si)	7440-21-3		6.591	mg	980074	56333
die (s)				supplier	metallization	Aluminium (Al)	7429-90-5		0.023	mg	3420	197
die (s)				supplier	metallization	Copper (Cu)	7440-50-8		0.023	mg	3420	197
die (s)				supplier	metallization	Titanium (Ti)	7440-32-6		0.009	mg	1338	77
die (s)				supplier	passivation	Silicon Oxide(SiO2)	7631-86-9		0.017	mg	2528	145
die (s)				supplier	passivation	Indium Tin oxide (In2O3.SnO2)	50926-11-9		0.062	mg	9219	530
Leadframe		51.612	mg	Supplier	alloy	Copper (Cu)	7440-50-8		48.650	mg	942610	415812
Leadframe				Supplier	alloy	Mg	7439-95-4		0.076	mg	1473	650
Leadframe				Supplier	coating	Silver (Ag)	7440-22-4		1.040	mg	20150	8889
Die Attach		1.444	mg	Supplier	glue	Epoxy Resin A	Trade secret		0.101	mg	69945	863
Die Attach				Supplier	glue	Epoxy Resin B	9003-36-5		0.058	mg	40166	496
Die Attach				Supplier	glue	Silver (Ag)	7440-22-4		1.111	mg	769391	9496
Die Attach				Supplier	glue	Lactone	NA		0.058	mg	40166	496
Die Attach				Supplier	glue	Polyoxypropylenediamine	NA		0.058	mg	40166	496
Die Attach				Supplier	glue	2,6-Diglycidyl phenyl allyl ether oligomer	NA		0.058	mg	40166	496
Bonding wire		0.457	mg	Supplier	Bonding wire	Gold (Au)	7440-57-5		0.457	mg	1000000	3906
Encapsulation		54.011	mg	Supplier	resin	Epoxy Resin	Trade secret		4.861	mg	90000	41547
Encapsulation				Supplier	resin	SiO2	14808-60-7		45.370	mg	840014	387778
Encapsulation				Supplier	resin	Phenol Resin	Trade secret		3.510	mg	64987	30000
Encapsulation				Supplier	resin	Carbon Black	1333-86-4		0.270	mg	4999	2308
Finishing		2.724	mg	Supplier	solder	Tin (Sn)	7440-31-5		2.724	mg	1000000	23282