



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 *	2017-05-19
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Antonella Lanzafame	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
Legal Statement	<p>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.</p>		

Product				
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date
LM211DT	LDO7*0211AC6	A	BO2A	2017-05-19
	Amount	UoM	Unit type	ST ECOPACK Grade
	80.00	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	Tin (Sn), matte, annealed	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
DSO	4.85 x 3.9 x 1.52	8	gull wing	
Comment	Package for: O7 SO 08 .15 JEDEC			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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-12th January 2017				
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						Mfr Item Name	LDO7*0211AC6					
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	2.411	mg	supplier	die	Silicon (Si)	7440-21-3		2.380	mg	987142	29750
				supplier	metallization	Aluminium (Al)	7429-90-5		0.011	mg	4562	138
				supplier	Passivation	Silicon Nitride	12033-89-5		0.006	mg	2489	75
				supplier	Passivation	Silicon Oxide	7631-86-9		0.007	mg	2903	88
				supplier	glass coating	Glass: Silicon Dioxide	7631-86-9		0.007	mg	2903	88
Leadframe	Copper & its alloys	29.678	mg	supplier	alloy	Copper (Cu)	7440-50-8		27.897	mg	939989	348713
				supplier	alloy	Iron (Fe)	7439-89-6		0.656	mg	22104	8200
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.040	mg	1348	500
				supplier	alloy	Zinc (Zn)	7440-66-6		0.034	mg	1146	425
				supplier	metallization	Nickel (Ni)	7440-02-0		0.486	mg	16376	6075
				supplier	metallization	Palladium (Pd)	7440-05-3		0.031	mg	1045	388
				supplier	metallization	Gold (Au)	7440-57-5		0.013	mg	438	163
				supplier	metallization	Silver (Ag)	7440-22-4		0.521	mg	17555	6513
Die attach		0.506	mg	supplier	glue	Silver (Ag)	7440-22-4		0.461	mg	911067	5763
				supplier	glue	acrylate	Proprietary		0.025	mg	49407	313
				supplier	glue	Methacrylate	Proprietary		0.020	mg	39526	250
Bonding wires	Other inorganic materials	0.072	mg	supplier	wire	Copper (Cu)	7440-50-8		0.072	mg	1000000	900
Encapsulation	Other Organic Materials	47.333	mg	supplier	mold compound	Silica, vitreous	60676-86-0		41.510	mg	876978	518875
				supplier	mold compound	Epoxy resin	85954-11-6		1.894	mg	40014	23675
				supplier	mold compound	Epoxy	29690-82-2		1.894	mg	40014	23675
				supplier	mold compound	phenol resin	29690-82-2		1.420	mg	30000	17750
				supplier	mold compound	additive	Proprietary		0.473	mg	9993	5913
				supplier	mold compound	carbon black	1333-86-4		0.142	mg	3000	1775