



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 *	2015-09-29
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	Representative Title	IPD 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

While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.

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
LM4041AELT-1.2	1VWX*4041BV6	A	ZS1A	2015-09-29
Amount		UoM	Unit type	ST ECOPACK Grade
10.00		mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	Tin (Sn), matte	Copper Alloy		



Package Designator	Size	Nbr of instances	Shape	
DSO	2.8X1.5X0.9	3	gull wing	
Comment	Package: SOT 23 3 LDS			

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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description

QueryList : REACH-15th June 2015				
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	1VWX*4041BV6					
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	0.458	mg	supplier	die	Silicon (Si)	7440-21-3		0.450	mg	982533	45000
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	4367	200
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	2183	100
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	2183	100
				supplier	Passivation	Silicon Oxide	7631-86-9		0.004	mg	8734	400
Leadframe	Copper and its alloy	2.540	mg	Supplier	Alloy	Copper (Cu)	7440-50-8		2.461	mg	968516	246100
				Supplier	Alloy	Iron (Fe)	7439-89-6		0.052	mg	20464	5200
				Supplier	Alloy	Iron Phosphide (Fe2P)	1310-43-6		0.001	mg	394	100
				Supplier	Alloy	Zinc (Zn)	7440-66-6		0.003	mg	1181	300
				Supplier	Alloy	Silver (Ag)	7440-22-4		0.024	mg	9445	2400
Die attach	Other Organic Material	0.071	mg	Supplier	Glue	Epoxyde Bisphenol A Resin	25068-38-6		0.024	mg	338028	2400
				Supplier	Glue	Diaminodiphenylsulfone	80-08-0		0.007	mg	98592	700
				Supplier	Glue	Ethoxyethoxy-ethyl Acetate	112-15-2		0.003	mg	42254	300
				Supplier	Glue	Bisphenol A diglycidyl ether polymer	25036-25-3		0.003	mg	42254	300
				Supplier	Glue	Glycol ether ester	Proprietary		0.003	mg	42254	300
				Supplier	Glue	Silica, vitreous	60676-86-0		0.001	mg	14085	100
Bonding Wire	Other Inorganic Material	0.030	mg	Supplier	Bonding Wire	Aluminium oxide	1344-28-1		0.030	mg	422535	3000
				Supplier	Bonding Wire	Copper (Cu)	25068-38-6		0.030	mg	1000000	3000
Encapsulation	Other Organic Material	6.704		Supplier	Molding Compound	Silica, vitreous	60676-86-0		5.765	mg	860063	576500
				Supplier	Molding Compound	phenolic resin	29690-82-2		0.201	mg	29987	20100
				Supplier	Molding Compound	epoxy resin	9003-35-4		0.389	mg	58034	38900
				Supplier	Molding Compound	Biphenyl epoxy resin	85954-11-6		0.335	mg	49978	33500
				Supplier	Molding Compound	carbon black	1333-86-4		0.013	mg	1939	1300
Finishing	Other Inorganic Material	0.197	mg	Supplier	Connection coating	Tin (Sn)	7440-31-5		0.197	mg	1000000	19700