



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D * : Required Field

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-06-21
Company Unique ID	NL 008751171B01		
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 *	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

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
	22BB*MV2UADA	B	MA1A	2017-06-21
Amount	UoM	Unit type	ST ECOPACK Grade	
60	mg	Each	ECOPACK® 2	
Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant			

Manufacturing information			
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	
3	260	3	
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment
Not Applicable	Nickel/Gold (Ni/Au), electrolytic	Copper Alloy	



Package Designator	Size	Nbr of instances	Shape
LGA	3.5x3.5x2	10	No lead
Comment	Package: A07X CERAMIC CCLGA 3.5X3.5X2 10L; MDF valid for LPS35HWTR		

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 : ELV directive : 2000/53/EC amended 2016/774_May 2016	
Query	Response
1 - Product(s) meets EU ELV requirement without any exemptions	TRUE
2 - Product(s) meets EU ELV requirements by application of the selected exemption(s)	FALSE
Exemption Id.	Description

QueryList : California Prop65 list, dated 27th January 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			TRUE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			FALSE
Substance	amount in product (mg)	Application	ppm in product
Nickel	1.34		22367
Lead	0.00		0
Lead-Borate Glass	0.00		0
Lead Zirconate Titanate (PZT)	0.00		0
Antimony trioxide	0.00		0

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
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Homogeneous Material above the limits per the definition within REACH				TRUE
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Homogeneous Material (mg)	Application - Homogeneous Material	ppm in Homogeneous Material

Material Composition Declaration						Mfr Item Name	2288*MV2UADA		Lot No.	Revision	Material	Concentration in product (ppm)
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Dies	M-011 Other inorganic materials	1.095	mg	supplier	die	Silicon (Si)	7440-21-3		1.032	mg	942466	17200
				supplier	metallisation	Aluminium (Al)	7429-90-5		0.010	mg	9132	167
				supplier	metallisation	Copper (Cu)	7440-50-8		0.011	mg	10046	183
				supplier	metallisation	Tantalum (Ta)	7440-25-7		0.002	mg	1826	33
				supplier	metallisation	Titanium (Ti)	7440-32-6		0.004	mg	3653	67
				supplier	metallisation	Tungsten (W)	7440-33-7		0.001	mg	913	17
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.007	mg	6393	117
				supplier	passivation	Silicon Oxide	7631-86-9		0.028	mg	2571	467
Die attach	M-015 Other organic materials	0.113	mg	supplier	tape	Acrylic resin	9003-01-4		0.034	mg	300885	567
				supplier	tape	epoxy resin	25068-38-6		0.034	mg	300885	567
				supplier	tape	amorphous silica	7631-86-9		0.034	mg	300885	567
				supplier	tape	Polyester resin	Proprietary		0.011	mg	97345	183
				supplier	glue	Dimethyl siloxane, dimethylvinyl-terminated	68083-19-2		0.022	mg	880000	367
Die attach 2	M-015 Other organic materials	0.025	mg	supplier	glue	Trimethylated silica	68909-20-6		0.002	mg	80000	33
				supplier	glue	Dimethyl, methylhydrogen siloxane, hydrogen	69013-23-6		0.001	mg	40000	17
				supplier	wire	Gold (Au)	7440-57-5		0.115	mg	991379	1917
				supplier	wire	Palladium (Pd)	7440-05-3		0.001	mg	8621	17
Cap Adhesive	M-015 Other organic materials	0.334	mg	supplier	glue	diglycidyl Bisphenol F	39817-09-9		0.160	mg	479042	2667
				supplier	glue	epoxypropoxy butane polymer	2425-79-8		0.027	mg	80838	450
				supplier	glue	PTFE	9002-84-0		0.090	mg	269461	1500
				supplier	glue	Epoxy resin	68475-94-5		0.022	mg	65868	367
				supplier	glue	Silica vitrous	60676-86-0		0.027	mg	80838	450
				supplier	glue	Polyoxypropylenediamine	9046-10-0		0.005	mg	14970	83
				supplier	glue	4-Methyl-2-phenyl-1H-imidazole	827-43-0		0.003	mg	8982	50
				supplier	resin	Rubber	Proprietary		3.719	mg	789932	61983
Potting Gel	M-015 Other organic materials	4.708	mg	supplier	resin	modified perfluoropolyether	241148-23-2		0.989	mg	210068	16483
				supplier	cap	iron (Fe)	7439-89-6		12.033	mg	739991	200550
Metal cap	M-015 Other organic materials	16.261	mg	supplier	cap	Chromium (Cr)	7440-47-3		2.927	mg	180001	48783
				supplier	cap	Nickel (Ni)	7440-02-0		1.301	mg	80007	21683
Ceramic base	M-011 Other inorganic materials	37.349	mg	supplier	ceramic	Alumina	1344-28-1		33.529	mg	897721	558817
				supplier	ceramic	Manganese oxide	1313-13-9		1.378	mg	36895	22967
				supplier	ceramic	Silicium dioxide	7631-86-9		1.079	mg	28890	17983
				supplier	ceramic	other	Proprietary		1.262	mg	33789	21033
				supplier	metallisation	Nickel (Ni)	7440-02-0		0.041	mg	1098	683
				supplier	metallisation	Gold (Au)	7440-57-5		0.037	mg	991	617
				supplier	ceramic	Molybdenum (Mo)	7439-98-7		0.021	mg	562	350
				supplier	ceramic	Tungsten (W)	7440-33-7		0.002	mg	54	33