



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 *	2017-06-20
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Giuseppe Vitali Palma	Representative Title	ADG 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
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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
STD28P3LLH6AG	CQDP*6P32A62	A	3068	2017-06-20
	Amount	UoM	Unit type	ST ECOPACK Grade
	330.00	mg	Each	ECOPACK1

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	
NA	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	6.5-6.1-2.3	3	GULL WING	
Comment	TO 252 DPAK			

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	FALSE
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)	TRUE
4 - Product(s) does not meet EU RoHS requirements and is not under exemptions	FALSE
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

Query : 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			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	1.12	Die Back side metal - Leadframe metal	3388
Lead	1.59	Soft solder	4803
Cobalt	0.46	Leadframe alloy	1394
Antimony trioxide	1.92	Encapsulation	5818

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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	CQDP*6P32A62						
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	1.215	mg	supplier	die	Silicon (Si)	7440-21-3		1.160	mg	954733	3515	
				supplier	metallization	Aluminium (Al)	7429-90-5		0.014	mg	11523	42	
				supplier	Passivation	Silicon Nitride	12033-89-5		0.018	mg	14815	55	
				supplier	Passivation	Silicon Oxide	7631-86-9		0.007	mg	5761	21	
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.001	mg	823	3	
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.011	mg	9053	33	
				supplier	back side metallization	Silver (Ag)	7440-22-4		0.004	mg	3292	12	
				supplier	alloy	Copper (Cu)	7440-50-8		164.152	mg	988564	497430	
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		0.330	mg	1987	1000	
				supplier	alloy	Cobalt (Co)	7440-48-4		0.462	mg	2782	1400	
Soft solder	Solder	1.660	mg	supplier	metallization	Nickel (Ni)	7440-02-0		1.107	mg	6667	3355	
				supplier	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	1.585	mg	954819	4803
				supplier	solder	Silver (Ag)	7440-22-4		0.042	mg	25301	127	
				supplier	solder	Tin (Sn)	7440-31-5		0.033	mg	19880	100	
Bonding wires	Other inorganic materials	0.294	mg	supplier	wire	Copper (Cu)	7440-50-8		0.294	mg	1000000	891	
				supplier	Other Organic Materials	Silica, vitreous	60676-86-0		128.746	mg	805997	390139	
Encapsulation	Other Organic Materials	159.735	mg	supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		11.182	mg	70005	33886	
				supplier	mold compound	Phenol resin	9003-35-4		6.389	mg	39997	19361	
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		9.584	mg	59999	29042	
				supplier	mold compound	Antimony Trioxide	1309-64-4		1.917	mg	12001	5809	
				supplier	mold compound	Brominated Epoxy Resin	40039-93-8		1.118	mg	6999	3388	
				supplier	mold compound	Carbon black	1333-86-4		0.799	mg	5002	2421	
				supplier	solder alloy	Tin (Sn)	7440-31-5		1.045	mg	1000000	3167	