



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 *	2017-09-05
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	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		

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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
T3050H-6T	7BVP*306VBT1	A	3068	2017-09-05
	Amount	UoM	Unit type	ST ECOPACK Grade
	1900.00	mg	Each	ECOPACK2

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

Package Designator	Size	Nbr of instances	Shape	
SIP	10.2-15.5-4.5	3	Through-hole	
Comment	TO 220 NI CLIP			

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)
7c-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

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	0.40	die backside metal	208
Lead	14.08	leadframe	7408
Lead-Borate Glass	1.28	die glass coating	671

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	7BVP*306VBT1					
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	16.489	mg	supplier	die	Silicon (Si)	7440-21-3		14.545	mg	882103	7655
				supplier	metallization	Gold (Au)	7440-57-5		0.055	mg	3336	29
				supplier	Passivation	Silicon Oxide	7631-86-9		0.083	mg	5034	44
				supplier	back side metallization	Gold (Au)	7440-57-5		0.019	mg	1152	10
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.395	mg	23955	208
				supplier	glass coating	Glass : Aluminium Oxide (Al2O3)	1344-28-1		0.117	mg	7096	62
				JIG - R	glass coating	Lead-Borate Glass	65997-18-4	7c-I-Electrical and e	1.275	mg	77324	671
Leadframe	Copper & its alloys	1253.004	mg	supplier	alloy	Copper (Cu)	7440-50-8		1251.751	mg	999000	658816
				supplier	alloy	CopperPhosphorous (CuP)	12517-41-8		1.253	mg	1000	659
Soft solder	Solder	15.296	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	14.076	mg	920241	7408
				supplier	solder	Silver (Ag)	7440-22-4		0.762	mg	49817	401
				supplier	solder	Tin (Sn)	7440-31-5		0.381	mg	24908	201
				supplier	solder	flux residue	Proprietary		0.077	mg	5034	41
Encapsulation	Other Organic Materials	577.224	mg	supplier	mold compound	Silica, vitreous	60676-86-0		438.690	mg	760000	230889
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		58.877	mg	102000	30988
				supplier	mold compound	Phenol resin	9003-35-4		34.633	mg	59999	18215
				supplier	mold compound	Others	Proprietary		28.861	mg	50000	15190
				supplier	mold compound	Metal hydroxide	21645-51-2		11.545	mg	20001	6076
				supplier	mold compound	Carbon black	1333-86-4		4.618	mg	8000	2444
Connections coating	Solder	6.362	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.362	mg	1000000	3348
Clip	Copper & its alloys	31.625	mg	supplier	alloy	Copper (Cu)	7440-50-8		31.625	mg	1000000	16645