




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 *	2017-10-31
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		

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
P0102BL 5AA4	JPVX*P0102BG	A	Z55A	2017-10-31
	Amount	UoM	Unit type	ST ECOPACK Grade
	8.00	mg	Each	ECOPACK® 2

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	Alloy 42		

Package Designator	Size	Nbr of instances	Shape	
SOT	2.9X1.625X1.175	2	gull wing	
Comment	Package: SOT 23			

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5 - Product(s) is obsolete, no information is available	false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

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	0.93	Leadframe	116375
Cobalt	0.01	Leadframe	1375

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	JPVX*P0102BG					
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	0.423	mg	supplier	die	Silicon (Si)	7440-21-3		0.362	mg	855792	45250
				supplier	metallization	Aluminium (Al)	7429-90-5		0.055	mg	130024	6875
				supplier	Passivation	Silicon Oxide	7631-86-9		0.005	mg	11820	625
				supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	2364	125
Leadframe	Copper & its alloys	2.363	mg	supplier	alloy	Iron (Fe)	7439-89-6		1.308	mg	553534	163500
				supplier	alloy	Manganese (Mn)	7439-96-5		0.014	mg	5924	1750
				supplier	alloy	Cobalt (Co)	7440-48-4		0.011	mg	4655	1375
				supplier	alloy	Silicon (Si)	7440-21-3		0.004	mg	1693	500
				supplier	alloy	Nickel (Ni)	7440-02-0		0.931	mg	393991	116375
				supplier	metallization	Silver (Ag)	7440-22-4		0.095	mg	40203	11875
Bonding wire	Precious metals	0.047	mg	supplier	wire	Gold (Au)	7440-57-5		0.047	mg	1000000	5875
Encapsulation	Other inorganic materials	4.929	mg	supplier	mold compound	silica vitreous	60676-86-0		4.203	mg	852708	525375
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		0.271	mg	54981	33875
				supplier	mold compound	Phenol Resin	26834-02-6		0.247	mg	50112	30875
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene bi	139189-30-3		0.123	mg	24954	15375
				supplier	mold compound	Carbon black	1333-86-4		0.010	mg	2029	1250
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.075	mg	15216	9375
Connections coating	Solder	0.238	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.238	mg	1000000	29750