



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 *	2017-09-19
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

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
ESDA8V2-1J	8JW3*TAP8V13	A	9955	2017-09-19
Amount	UoM	Unit type	ST ECOPACK Grade	
5.00	mg	Each	ECOPACK2	

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	Alloy 42		

Package Designator	Size	Nbr of instances	Shape	
DSO	1.628-1.247-1.059	2	gull wing	
Comment	SOD 323			

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

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	0.53	Leadframe alloy	106000

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	8JW3*1AP8V13		5.0000			
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	1.468	mg	supplier	die	Silicon (Si)	7440-21-3		0.151	mg	986928	30200
				supplier	metallization	Aluminium (Al)	7429-90-5		0.001	mg	6536	200
				supplier	Passivation	Silicon Oxide	7631-86-9		0.001	mg	6536	200
				supplier	alloy	Iron (Fe)	7439-89-6		0.732	mg	556654	146400
				supplier	alloy	Nickel (Ni)	7440-02-0		0.530	mg	403042	106000
				supplier	metallization	Silver (Ag)	7440-22-4		0.053	mg	40304	10600
Bonding wires	Other inorganic materials	0.035	mg	supplier	wire	Gold (Au)	7440-57-5		0.035	mg	1000000	7000
Encapsulation	Other Organic Materials	3.437	mg	supplier	mold compound	silica vitreous	60676-86-0		2.931	mg	852779	586200
				supplier	mold compound	Epoxy Cresol Novolak	29690-82-2		0.189	mg	54990	37800
				supplier	mold compound	Phenol Resin	26834-02-6		0.172	mg	50044	34400
				supplier	mold compound	Tetrakis(2,6-dimethylphenyl) 1,3-phenylene bis	139189-30-3		0.086	mg	25021	17200
				supplier	mold compound	Biphenyl epoxy resin	85954-11-6		0.052	mg	15129	10400
				supplier	mold compound	Carbon black	1333-86-4		0.007	mg	2037	1400
Connections coating	Solder	0.060	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.060	mg	1000000	12000