



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2018-01-30
Contact Name *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Authorized Representative *	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
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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
TN1215-600B-TR	BGDP*P1G126S	A	Z8GA	2018-01-30
	Amount	UoM	Unit type	ST ECOPACK Grade
	320	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	
Not Applicable	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	6.5-6.1-2.3	3	gull wing	
Comment	Package: 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)
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

QueryList : California Prop65 list, dated 15th December 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	1.15	Die - Leadframe	3578
Lead	3.24	Soft Solder	10113
Lead-Borate Glass	0.58	Die glass coating	1825

QueryList : REACH-15th January 2018				
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 Embedded article nor Homogeneous Material above the limits per the definition within REACH				true
CategoryLevel_Name	CategoryLevel_Threshold	Amount in Embedded Article / Homogeneous Material (mg)	Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material

Material Composition Declaration : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	BGDP*P1G1265					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	3.652	mg	supplier	die	Silicon (Si)	7440-21-3		2.866	mg	784775	8956
				supplier	metallization	Aluminium (Al)	7429-90-5		0.100	mg	27382	313
				supplier	metallization	Gold (Au)	7440-57-5		0.011	mg	3014	32
				supplier	passivation	Nickel (Ni)	7440-02-0		0.017	mg	4655	53
				supplier	Passivation	Silicon Oxide	7631-86-9		0.026	mg	7119	81
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.016	mg	4381	50
				supplier	back side metallization	Gold (Au)	7440-57-5		0.006	mg	1643	19
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.026	mg	7119	81
Leadframe	Copper & its alloys	165.341	mg	JIG - R & California 65	glass coating	Lead-Borate Glass	65997-18-4	7c-I-Electrical and e	0.584	mg	159912	1825
				supplier	alloy	Copper (Cu)	7440-50-8		164.075	mg	992343	512734
				supplier	alloy	Copper Phosphorous (CuP)	12517-41-8		0.164	mg	992	513
Soft solder	Solder	2.778	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high mel	2.652	mg	954644	8288
				supplier	solder	Silver (Ag)	7440-22-4		0.070	mg	25198	219
				supplier	solder	Tin (Sn)	7440-31-5		0.056	mg	20158	175
Bonding wires	Other inorganic materials	0.919	mg	supplier	wire	Aluminium (Al)	7429-90-5		0.919	mg	1000000	2872
Encapsulation	Other Organic Materials	146.269	mg	supplier	mold compound	Silica, vitreous	60676-86-0		131.277	mg	897504	410241
				supplier	mold compound	Epoxy resin	25068-38-6		10.239	mg	70001	31997
				supplier	mold compound	Phenol resin	29690-82-2		4.388	mg	30000	13713
				supplier	mold compound	carbon black	1333-86-4		0.365	mg	2495	1141
Connections coating	Solder	1.041	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		1.041	mg	1000000	3253