



## Materials Declaration Form

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


Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2016-11-11
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Giovanni Giacopello	<b>Representative Title</b>	ADG MD CHAMPION
<b>Representative Phone *</b>	Refer to Supplier Comment section	<b>Representative Email *</b>	Refer to Supplier Comment section
<b>Supplier Comment</b>	Online Technical Support - STMicroelectronics : <a href="http://www.st.com/web/en/support/support.html">http://www.st.com/web/en/support/support.html</a>		

**Uncertainty Statement**

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Legal Statement			
<b>Supplier Acceptance *</b>	true	<b>Legal Declaration *</b>	Standard
<b>Legal Statement</b>	<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
P6KE6V8CA	8HRH*TWBV68G	A	ZA41	2016-11-11
Amount		UoM	Unit type	ST ECOPACK Grade
400.00		mg	Each	ECOPACK® 2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles	 life.augmented	
Not Applicable	Not Applicable	Not Applicable		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy		
NAC	Tin (Sn), matte	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape
RAD	6.4 - 10.17 - 3.24	2	Through-hole
Comment	Package: DO 15		

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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description
7a	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)

QueryList : REACH-20th June 2016				
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	8HRH*TWBV68G					
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	2.036	mg	supplier	die	Silicon (Si)	7440-21-3		1.789	mg	878684	4473
				supplier	metallization	Aluminium (Al)	7429-90-5		0.192	mg	94303	480
				supplier	Passivation	Silicon Oxide	7631-86-9		0.016	mg	7859	40
				supplier	back side metallization	Aluminium (Al)	7429-90-5		0.007	mg	3438	18
				supplier	back side metallization	Gold (Au)	7440-57-5		0.002	mg	982	5
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.011	mg	5403	28
				supplier	polymer die coating	DurImide	proprietary		0.019	mg	9332	48
				supplier	alloy	Copper (Cu)	7440-50-8		286.083	mg	999528	715208
Leadframe	Copper & its alloys	286.218	mg	supplier	alloy	Zinc (Zn)	7440-66-6		0.011	mg	38	24
				supplier	alloy	Iron (Fe)	7439-89-6		0.028	mg	98	70
				supplier	alloy	Phosphorus (P)	12185-10-3		0.096	mg	335	240
				supplier	alloy	Lead (Pb)	7439-92-1	7a-Lead in high me	4.428	mg	924812	11070
Soft solder	Solder	4.788	mg	JIG - R	solder	Silver (Ag)	7440-22-4		0.240	mg	50125	600
				supplier	solder	Tin (Sn)	7440-31-5		0.120	mg	25063	300
				supplier	solder	Quartz	14808-60-7		80.314	mg	779990	200785
Encapsulation	Other inorganic materials	102.968	mg	supplier	mold compound	epoxy resin	29690-82-2		14.931	mg	145006	37328
				supplier	mold compound	phenol resin	9003-35-4		7.208	mg	70002	18020
				supplier	mold compound	Carbon Black	1333-86-4		0.515	mg	5002	1288
				supplier	solder alloy	Tin (Sn)	7440-31-5		3.990	mg	1000000	9975
Connections coating	Solder	3.990	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		3.990	mg	1000000	9975