



## 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>	2017-01-23
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<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

**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
STTH15RQ06WY	BTLV*U66Q2AI	A	3068	2017-01-23
	Amount	UoM	Unit type	ST ECOPACK Grade
	4400.00	mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
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	15.75-20.15-5.15	2	Through-hole	
Comment	DO 247			

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)

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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	BTLV*U66Q2A1					
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	4.389	mg	supplier	die	Silicon (Si)	7440-21-3		4.212	mg	959681	958
				supplier	metallization	Aluminium (Al)	7429-90-5		0.062	mg	14123	14
				supplier	Passivation	Silicon Oxide	7631-86-9		0.020	mg	4556	5
				supplier	back side metallization	Titanium (Ti)	7440-32-6		0.002	mg	455	0
				supplier	back side metallization	Gold (Au)	7440-57-5		0.007	mg	1595	2
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.034	mg	7745	8
				supplier	polymer die coating	Probinide	proprietary		0.052	mg	11845	12
Leadframe	Copper & its alloys	2700.559	mg	supplier	alloy	Copper (Cu)	7440-50-8		2696.060	mg	998334	612741
				supplier	alloy	Iron (Fe)	7439-89-6		1.242	mg	460	282
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		2.268	mg	840	515
				supplier	metallization	Nickel (Ni)	7440-02-0		0.915	mg	339	208
				supplier	metallization	Phosphorus (P)	12185-10-3		0.074	mg	27	17
Soft solder	Solder	4.830	mg	JIG - R	solder	Lead (Pb)	7439-92-1	7a-Lead in high me	4.612	mg	954865	1048
				supplier	solder	Silver (Ag)	7440-22-4		0.121	mg	25052	28
				supplier	solder	Tin (Sn)	7440-31-5		0.097	mg	20083	22
Bonding wires	Other inorganic materials	4.925	mg	supplier	wire	Aluminium (Al)	7429-90-5		4.925	mg	1000000	1119
				supplier	die	Silica, vitreous	60676-86-0		1460.816	mg	870000	332004
Encapsulation	Other Organic Materials	1679.100	mg	supplier	mold compound	Epoxy resin	25068-38-6		167.910	mg	100000	38161
				supplier	mold compound	Phenol resin	29690-82-2		41.978	mg	25000	9540
				supplier	mold compound	Carbon Black	1333-86-4		8.396	mg	5000	1908
Connections coating	Solder	6.197	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		6.197	mg	1000000	1408