




## 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>

<b>Supplier Information</b>			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	20-11-2018
<b>Company Unique ID</b>	NL 008751171B01		
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Contact Phone *</b>	Refer to Supplier Comment section	<b>Contact Email *</b>	Refer to Supplier Comment section
<b>Authorized Representative *</b>	MDG MD CHAMPION	<b>Representative Title</b>	MDG 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>		

<b>Uncertainty Statement</b>			
<p>While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and 'as available' basis. STMicroelectronics disclaims all warranties, express or implied related to this document and its contents, including but not limited to implied warranties of completeness, truth, accuracy, merchantability, fitness for a particular purpose and non-infringement. ST shall have no responsibility and assumes no liability for any cost, loss or damage of any kind which could arise, directly or indirectly, from the use or inability to use this document and/or its contents.</p>			
<b>Legal Statement</b>			
<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
M24C64S-FCU6J/TF	JCPT*3S64ATA	A	996N	20-11-2018
	Amount	UoM	Unit type	ST ECOPACK Grade
	0.33	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant ( in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
1	260 DEGREES	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
Tin/Silver/Copper (SAC125)	NAC	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
CSP	0,711x0.731x0.270	4		
Comment	Package : A0Z7 WLCSP ULTRA-THIN 8508309			

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

QueryList : REACH-27th June 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

Material Composition Declaration :						Mfr Item Name	JCPT*3564ATA				5999999.0	999805.6
note : Substance present with less 0.001mg will not be declared in this document												
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die or dies	M-011 Other inorganic materials	0.196	mg	supplier	die	Silicon (Si)	7440-21-3		0.177	mg	903061	530942
				supplier	metallization	Aluminium (Al)	7429-90-5		0.002	mg	10204	5999
				supplier	Passivation	Silicon Nitride	12033-89-5		0.001	mg	5102	3000
				supplier	Passivation	Silicon Oxide	7631-86-9		0.016	mg	81633	47995
Polyimide	M-011 Other inorganic materials	0.008	mg	supplier	PI	Polyimide	497926-97-3		0.008	mg	1000000	23195
Sputter Layer	Metal	0.000	mg	supplier	Titanium(Ti)	Titanium(Ti)	7440-32-6		0.000	mg	1000000	393
UBM	Metal	0.013	mg	supplier	Copper(Cu)	Copper(Cu)	7440-50-8		0.013	mg	1000000	40156
Solder Ball(98.25Sn / 1.2Ag / 0.5Cu)/0	Copper Tin & its alloys	0.097	mg	supplier	Solder Ball	Solder Ball	7440-31-5		0.095	mg	982532	285153
				supplier	Solder Ball	Silver(Ag)	7440-22-4		0.001	mg	11990	3483
				supplier	Solder Ball	Copper(Cu)	7440-50-8		0.000	mg	4961	1451
				supplier	Solder Ball	Nickle(Ni)	7440-02-0		0.000	mg	517	145
Lamination tape(LC86R25)	M-011 Other inorganic materials	0.019	mg	supplier	Plastics/polymers	Polyethylene Terephthalate, Silicone	Proprietary		0.005	mg	271903	15741
				supplier	Glass	Silica	Proprietary		0.005	mg	271903	15741
				supplier	Plastics/polymers	Epoxy Resin	Proprietary		0.001	mg	60423	3498
				supplier	Plastics/polymers	Acrylic Resin	Proprietary		0.001	mg	60423	3498
				supplier	Alloy	Carbon Black	Proprietary		0.000	mg	3021	175
				supplier	Plastics/polymers	Polyethylene Terephthalate, Silicone	Proprietary		0.006	mg	332326	19240