



## Materials Declaration Form

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

Supplier Information			
<b>Company Name *</b>	<b>STMicroelectronics</b>	<b>Response Date *</b>	<b>2016-02-26</b>
<b>Contact Name *</b>	Refer to Supplier Comment section		Refer to Supplier Comment section
<b>Authorized Representative *</b>	Rossana Bonaccorso	<b>Representative Title</b>	IPD 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**

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.


**Legal Statement**

<b>Supplier Acceptance *</b>	<b>true</b>	<b>Legal Declaration *</b>	<b>Standard</b>
------------------------------	-------------	----------------------------	-----------------

**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
STPS140Z	HJUF*NHBY104	A	Z55A	2016-02-26
Amount	UoM	Unit type	ST ECOPACK Grade	
9.00	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	
NAC	Tin (Sn), matte	Alloy 42		

Package Designator	Size	Nbr of instances	Shape	
DSO	2.672X1.57X1.094	2	gull wing	
Comment	Package: SOD 123 2L 1.0mm; MDF valid also for STPS0540Z			

QueryList : ROHS directive 2011/65/EU _ July 2011	
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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description

QueryList : REACH-17th December 2015				
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	HJUF*NHBY104					
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	0.585	mg	supplier	die	Silicon (Si)	7440-21-3		0.548	mg	936752	60889
				supplier	metallization	Aluminium (Al)	7429-90-5		0.027	mg	46154	3000
				supplier	metallization	Titanium (Ti)	7440-32-6		0.001	mg	1709	111
				supplier	metallization	Tungsten (W)	7440-33-7		0.001	mg	1709	111
				supplier	metallization	Nickel (Ni)	7440-02-0		0.003	mg	5128	333
				supplier	Passivation	Silicon Oxide	7631-86-9		0.004	mg	6838	444
Leadframe	Other Ferrous alloys, non-stainless ste	2.606	mg	supplier	back side metallization	Gold (Au)	7440-57-5		0.001	mg	1709	111
				supplier	Alloy	Iron (Fe)	7439-89-6		1.458	mg	559478	162000
				supplier	Alloy	Nickel (Ni)	7440-02-0		1.036	mg	397544	115111
				supplier	Alloy	Manganese (Mn)	7439-96-5		0.015	mg	5756	1667
				supplier	Alloy	Chromium (Cr)	7440-47-3		0.003	mg	1151	333
				supplier	Alloy	Cobalt (Co)	7440-48-4		0.013	mg	4988	1444
Bonding wire	Precious metals	0.024	mg	supplier	Alloy	Silicon (Si)	7440-21-3		0.004	mg	1535	444
				supplier	metallization	Silver (Ag)	7440-22-4		0.077	mg	29547	8556
				supplier	Wire	Gold (Au)	7440-57-5		0.024	mg	1000000	2667
				supplier	Moulding Compound	SiO2	60676-86-0		4.893	mg	873126	543667
				supplier	Moulding Compound	Epoxy Cresol Novolak	29690-82-2		0.280	mg	49964	31111
				supplier	Moulding Compound	Phenol Resin	26834-02-6		0.280	mg	49964	31111
Encapsulation	Other Organic Materials	5.604	mg	supplier	Moulding Compound	Aromatic poly-phosphate	139189-30-3		0.140	mg	24982	15556
				supplier	Moulding Compound	Carbon Black	1333-86-4		0.011	mg	1963	1222
				supplier	Moulding Compound	Tin (Sn)	7440-31-5		0.181	mg	1000000	20111
Connection coating	Solder	0.181	mg	supplier	Solder alloy	Tin (Sn)	7440-31-5		0.181	mg	1000000	20111