



## 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

*\* : Required Field*

Supplier Information			
<b>Company Name *</b>	STMicroelectronics	<b>Response Date *</b>	2015-09-17
<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**

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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
LD1117D33TR	PZ07*KS33AA6	A	SHENZHEN B/E	2015-09-17
	Amount	UoM	Unit type	ST ECOPACK Grade
	80.00	mg	Each	ECOPACK2

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		
1	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
NAC	NiPdAuAg	Copper Alloy		



Package Designator	Size	Nbr of instances	Shape	
DSO	4.9, 6, 1.75	8	GULL WING	
Comment	SO 08 .15 JEDEC			

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-15th June 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	PZ07*KS33AA6					
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 (choose)	Other inorganic materials	2.448	mg	supplier	die	Silicon (Si)	7440-21-3		2.371	mg	968559	29650
				supplier	metallization	Aluminium (Al)	7429-90-5		0.030	mg	12250	375
				supplier	Passivation	Silicon Nitride	12033-89-5		0.010	mg	4083	125
				supplier	Passivation	Silicon Oxide	7631-86-9		0.014	mg	5717	175
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.002	mg	817	25
				supplier	back side metallization	Gold (Au)	7440-57-5		0.005	mg	2042	63
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.016	mg	6533	200
				supplier	alloy	Copper (Cu)	7440-50-8		31.911	mg	997219	398888
Leadframe	Copper & its alloys	32.000	mg	supplier	alloy	Iron (Fe)	7439-89-6		0.015	mg	469	188
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.027	mg	844	338
				supplier	metallization	Nickel (Ni)	7440-02-0		0.044	mg	1375	550
				supplier	metallization	Palladium (Pd)	7440-05-3		0.001	mg	31	13
				supplier	metallization	Gold (Au)	7440-57-5		0.001	mg	31	13
				supplier	metallization	Silver (Ag)	7440-22-4		0.001	mg	31	13
				supplier	glue or tape	Silver (Ag)	7440-22-4		0.805	mg	910633	10063
				supplier	glue or tape	acrylate	Proprietary		0.044	mg	49774	550
Die attach	Other Organic Materials	0.884	mg	supplier	glue or tape	Methacrylate	Proprietary		0.035	mg	39593	438
				supplier	glue or tape	Proprietary						
Bonding wires	Other inorganic materials	0.037	mg	supplier	wire	Copper (Cu)	7440-50-8		0.037	mg	1000000	463
Encapsulation	Other Organic Materials	44.631	mg	supplier	mold compound	Silica, vitreous	60676-86-0		38.650	mg	865990	483125
				supplier	mold compound	Epoxy Resin	25068-38-6		3.347	mg	74993	41838
				supplier	mold compound	Phenol Resin	29690-82-2		2.232	mg	50010	27900
				supplier	mold compound	Carbon black	1333-86-4		0.223	mg	4997	2788
				supplier	mold compound	Bismuth (Bi)	7440-69-9		0.179	mg	4011	2238