



Materials Declaration Form

IPC Form Type *	1752 Distribute	Version	2
Sectionals *	Material Info Manufacturing Info	Subsectionals *	A-D

** : Required Field*

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	25/03/2015
Contact Name *	Refer to "Supplier Comment" section	Contact Title	Refer to "Supplier Comment" section
Contact Phone *	Refer to "Supplier Comment" section	Contact Email *	Refer to "Supplier Comment" section
Authorized Representative *	Arcidiacono Salvatore	Representative Title	IPG IPC Materials Declaration Champion
Representative Phone *	Refer to "Supplier Comment" section	Representative Email *	Refer to "Supplier Comment" section
Supplier Comment	Online Technical Support - STMicroelectronics : http://www.st.com/web/en/support/support.html		

Uncertainty Statement

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Legal Statement

Supplier Acceptance *	true	Legal Declaration *	Standard
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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
L78M05CDT-TR	ZHGR*LM05AB6	A	SH1A	25/03/2015
	Amount	UoM	Unit type	ST ECOPACK Grade
	290.00	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	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
SIP	6.5 X 6.1 X 2.3	2	gull wing	
Comment				

QueryList : ROHS directive 2011/65/EU _ July 2011	
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)

ELV exemption number	
Query	Response
1 - Product(s) meets EU ELV requirements without any exemptions	false
2 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)	true
Exemption id.	Description
	#N/A
	#N/A

QueryList : REACH-17th December 2014				
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	ZHGR*LM05AB6					
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	1.266	mg	supplier	die	Silicon (Si)	7440-21-3		1.253	mg	989731	4321
				supplier	back side metallization	Chromium (Cr)	7440-47-3		0.001	mg	790	3
				supplier	back side metallization	Gold (Au)	7440-57-5		0.003	mg	2370	10
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.009	mg	7109	31
Leadframe	Copper & its alloys	94.227	mg	supplier	alloy	Copper (Cu)	7440-50-8		94.105	mg	998705	324500
				supplier	alloy	Iron (Fe)	7439-89-6		0.047	mg	499	162
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.075	mg	796	259
Soft solder	Other inorganic materials	1.387	mg	JIG - R	solder	Lead (Pb)	7439-92-1		1.324	mg	954578	4566
				supplier	solder	Silver (Ag)	7440-22-4		0.035	mg	25234	121
				supplier	solder	Tin (Sn)	7440-31-5		0.028	mg	20187	97
				supplier	wire	Copper (Cu)	7440-50-8		0.105	mg	1000000	362
encapsulation	Other Organic Materials	192.275	mg	supplier	mold compound	Epoxy Resin	Proprietary		5.711	mg	29702	19693
				supplier	mold compound	2,2'-((3,3',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'	EC 413-900-7		7.615	mg	39605	26259
				supplier	mold compound	phenol resin	Proprietary		5.711	mg	29702	19693
				supplier	mold compound	Silica, vitreous	60676-86-0		166.575	mg	866337	574397
				supplier	mold compound	Carbon black	1333-86-4		0.952	mg	4951	3283
supplier	mold compound	other	Proprietary		5.711	mg	29702	19693				
connections coating	Solder	0.740	mg	supplier	solder alloy	Tin (Sn)	7440-31-5		0.740	mg	1000000	2552