



Materials Declaration Form

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

Supplier Information			
Company Name *	STMicroelectronics	Response Date *	2017-07-03
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Authorized Representative *	Rossana Bonaccorso	Representative Title	ADG MD 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

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 omprehensive 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
EMIF06-1005M12	EST3*EMI6T6A	A	Z6HA	2017-07-03
Amount	UoM	Unit type	ST ECOPACK Grade	
6.00	mg	Each	ECOPACK® 1	

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	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	2.5 - 1.5 - 0.53	12	No lead	
Comment	Package: VFQFPN 2.5x1.5 12L			

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
5 - Product(s) is obsolete, no information is available	false
6 - Product(s) is unknown, no information is available	false
Exemption Id.	Description

Query : California Prop65 list, dated 27th January 2017			
Query			Response
1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen			FALSE
2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen			TRUE
Substance	amount in product (mg)	Application	ppm in product
Nickel	0.10	Die - Leadframe	16000

QueryList : REACH-12th January 2017				
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	EST3*EMI6T6A					
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	0.117	mg	supplier	die	Silicon (Si)	7440-21-3		0.108	mg	923077	18000
				supplier	metallization	Aluminum (Al)	7429-90-5		0.005	mg	42735	833
				supplier	Passivation	Silicon Oxide	7631-86-9		0.003	mg	25641	500
				supplier	back side metallization	Nickel (Ni)	7440-02-0		0.001	mg	8547	167
				supplier	alloy	Copper (Cu)	7440-50-8		2.030	mg	942870	338333
Leadframe	Copper & its alloys	2.153	mg	supplier	alloy	Silicon (Si)	7440-21-3		0.010	mg	4645	1667
				supplier	alloy	Nickel (Ni)	7440-02-0		0.070	mg	32513	11667
				supplier	alloy	Magnesium (Mg)	7439-95-4		0.003	mg	1393	500
				JIG R	alloy	Iron (Fe)	7439-89-6		0.003	mg	1393	500
				supplier	alloy	Zinc (Zn)	7440-66-6		0.010	mg	4645	1667
				supplier	metallization	Nickel (Ni)	7440-02-0		0.025	mg	11612	4167
				supplier	metallization	Palladium (Pd)	7440-05-3		0.002	mg	929	333
				supplier	glue	Silver (Ag)	7440-22-4		0.013	mg	866667	2167
				supplier	glue	Carbocyclic Acrylates (10 -30%)	proprietary		0.002	mg	133333	333
				Bonding wires	Precious metals	0.070	mg	supplier	wire	Gold (Au)	7440-57-5	
Encapsulation	Other inorganic materials	3.645	mg	supplier	mold compound	Silica Fused	60676-86-0		3.414	mg	936626	569000
				JIG I	mold compound	Epoxy Resin	Proprietary		0.110	mg	30178	18333
				supplier	mold compound	Phenol Resin	Proprietary		0.110	mg	30178	18333
				supplier	mold compound	Carbon Black	1333-86-4		0.011	mg	3018	1833