



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 *	02/27/2015
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 *	Giuseppe Vitali Palma	Representative Title	Group 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
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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
	MQBF*V796AA5	A	Z6HA	02/27/2015
Amount	UoM	Unit type	ST ECOPACK Grade	
1.94	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	Nicke/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	1.2X1.3X0.45	5	No lead	
Comment	Package: VDFPN 6L 1.2X1.3X0.45 0.4 P; MD valid for LDK120PU25R, LDK130PU25R			

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

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	MQ8F*V796AA5					
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Silicon die	Other inorganic materials	0.153	mg	SUPPLIER	Die	Si	7440-21-3		0.135	mg	882353	69588
			mg	SUPPLIER	metallization	Aluminium (Al)	7429-90-5		0.004	mg	26144	2062
			mg	SUPPLIER	metallization	Tungsten (W)	7440-33-7		0.003	mg	19608	1546
			mg	SUPPLIER	passivation	Silicon Nitride (SiN)	68034-42-4		0.001	mg	6536	515
			mg	SUPPLIER	passivation	Silicon Oxide(SiO2)	7631-86-9		0.007	mg	45752	3608
			mg	SUPPLIER	passivation	Gamma-butyrolactone	96-48-0		0.002	mg	13072	1031
			mg	SUPPLIER	passivation	Polyhydroxyamide	55295-98-2		0.001	mg	6536	515
			mg	SUPPLIER	Alloy	Copper	7440-50-8		0.493	mg	933712	254124
			mg	SUPPLIER	Alloy	Silicon	7440-21-3		0.003	mg	5682	1546
			mg	SUPPLIER	Alloy	Nickel	7440-02-0		0.018	mg	34091	9278
Leadframe	Copper and its alloy	0.528	mg	SUPPLIER	Alloy	Magnesium	7439-95-4		0.001	mg	1894	515
			mg	SUPPLIER	Alloy	Iron	7439-89-6		0.001	mg	1894	515
			mg	SUPPLIER	Alloy	Zinc	7440-66-6		0.003	mg	5682	1546
			mg	SUPPLIER	Alloy	Manganese	7439-96-5		0.001	mg	1894	515
			mg	SUPPLIER	Plating	Nickel	7440-02-0		0.006	mg	11364	3093
			mg	SUPPLIER	Plating	Palladium	7440-05-3		0.001	mg	1894	515
			mg	SUPPLIER	Plating	Gold	7440-57-5		0.001	mg	1894	515
			mg	SUPPLIER	Epoxy	Aluminium oxide	1344-28-1		0.010	mg	303030	5155
			mg	SUPPLIER	Epoxy	Diethylene glycol monoethyl ether acetate	112-15-2		0.013	mg	393939	6701
			mg	SUPPLIER	Epoxy	Epoxy resin	25068-38-6		0.002	mg	60606	1031
Die attach	Other organic materials	0.033	mg	SUPPLIER	Epoxy	Epoxy resin	Proprietary		0.007	mg	212121	3608
			mg	SUPPLIER	Epoxy	Aromatic amine	Proprietary		0.001	mg	30303	515
			mg	SUPPLIER	Bonding Wire	Au	7440-57-5		0.016	mg	13051	8247
			mg	SUPPLIER	molding compound	Silica Fused	60676-86-0		1.132	mg	923328	583505
			mg	SUPPLIER	molding compound	Epoxy Resin	Proprietary		0.037	mg	30179	19072
Bonding wire	Other organic materials	1.210	mg	SUPPLIER	molding compound	Phenol Resin	Proprietary		0.037	mg	30179	19072
			mg	SUPPLIER	molding compound	Carbon Black	1333-86-4		0.004	mg	3263	2062