




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 *	2018-03-04
Company Unique ID	NL 008751171B01		
Contact Name *	Refer to Supplier Comment section		Refer to Supplier Comment section
Contact Phone *	Refer to Supplier Comment section	Contact Email *	Refer to Supplier Comment section
Authorized Representative *	MDG MD CHAMPION	Representative Title	MDG 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	<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
ST25R3916-AQWT	UTIC*TT3916B	A	997G	2018-03-04
	Amount	UoM	Unit type	ST ECOPACK Grade
	70.00	mg	Each	ECOPACK® 2
	Comment	ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant (in each organic material)		

Manufacturing information				
J-STD-020 MSL Rating	Classification Temp	Nbr of Reflow Cycles		 life.augmented
3	260	3		
bulk Solder Termination	Terminal Plating	Terminal Base Alloy	Comment	
able; if coating is used or other bulk	Matte tin	Copper Alloy		

Package Designator	Size	Nbr of instances	Shape	
QFN	5x5x0.5mm	32	No lead	
Comment	Package : B04R VFQFPN 5X5X1 32L WETTABLE FLANKS DM00384332			

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
Exemption Id.	Description

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 : note : Substance present with less 0.001mg will not be declared in this document						Mfr Item Name	UTIC* TT3916B				5999998.0	1030858.0
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	M-011 Other inorganic materials	7.179	mg	supplier	die	Silicon (Si)	7440-21-3		6.785	mg	945118	96929
					metallization	Aluminium (Al)	7429-90-5		0.027	mg	3761	386
					metallization	Copper (Cu)	7440-50-8		0.133	mg	18526	1900
					metallization	Cobalt (Co)	7440-48-4		0.025	mg	3482	357
					metallization	Titanium (Ti)	7440-32-6		0.007	mg	975	100
					metallization	Tungsten (W)	7440-33-7		0.015	mg	2089	214
					Passivation	Silicon Nitride	12033-89-5		0.018	mg	2507	257
					Passivation	Silicon Oxide	7631-86-9		0.169	mg	23541	2414
Leadframe-EFTEC64T	Other Inorganic materials	19.624	mg	supplier	Alloy	Cu	7440-50-8		18.938	mg	965045	270541
					Alloy	Cr	7440-47-3		0.052	mg	2625	736
					Alloy	Sn	7440-31-5		0.048	mg	2430	681
					Alloy	Zn	7440-66-6		0.038	mg	1944	545
					Plating	Ag	7440-22-4		0.549	mg	27956	7837
Wire	Other inorganic materials	0.502	mg	supplier	Bonding wire	Au	7440-57-5		0.502	mg	1000000	7176
Compound700LTD	Other Organic Materials	40.535	mg	supplier	Molding compound	Epoxy Resin	Trade secret		1.611	mg	39742	23013
					Molding compound	Phenol Resin	Trade secret		0.741	mg	18281	10586
					Molding compound	Silica (Amorphous)A	60676-86-0		35.702	mg	880774	510026
					Molding compound	Silica (Amorphous)B	7631-86-9		1.611	mg	39742	23013
					Molding compound	Metal Hydroxide	Trade secret		0.741	mg	18281	10586
Molding compound	Carbon Black	1333-86-4		0.129	mg	3179	1841					
Matte tin	Other inorganic materials	2.160	mg	supplier	Plating	Sn	7440-31-5		2.160	mg	1000000	30860