

Materials Declaration Form

IPC	1752		2				
Form Type *	Distribute	Version					
Sectionals *	Material Info	Subsectionals *	A-D				
	Manufacturing Info		* : Required Field				
Supplier Information							
Company Name *	STMicroelectronics	Response Date *	2018-11-28				
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 *	Floriana SAN BIAGIO	Representative Title	AMS MD CHAMPION				
Representative Phone *	Refer to Supplier Comment section	Representative Email *	Refer to Supplier Comment section				
Supplier Comment	Online Technical Support - STMicroelectro http://www.st.com/web/en/support/sup						
STMicroelectronics disclaims all warr merchantability, fitness for a particula or indirectly, from the use or inability	anties, express or implied related to this	document and its contents, including	and its contents are provided on a strict 'as is' and 'as available' basis. but not limited to implied warranties of completeness, truth, accuracy, liability for any cost, loss or damage of any kind which could arise, directly				
Legal Statement							
Supplier Acceptance *	true	Legal Declaration	* Standard				
Legal Statement	date that Supplier completes this form. S Company acknowledges that Supplier ma independently verified such information Supplier agrees that, at a minimum, its s least as omprehensive as the certificatio identified part(s), the terms and conditi	upplier acknowledges that Company w ay have relied on information provided n. However, in situations where Su uppliers have provided certifications n n in this paragraph. If the Company tions of that agreement, including am	mation is true and correct to the best of its knowledge and belief, as of the vill rely on this certification in determining the compliance of its products. d by others in completing this form, and that Supplier may not have pplier has not independently verified information provided by others, egarding their contributions to the part(s), and those certifications are at v and the Supplier enter into a written agreement with respect to the y warranty rights and/or remedies provided as part of that agreement, will medies for issues that arise regarding information the Supplier provides in				

Product								
Mfr Item Number	Mfr Item Name	Version	Mfr Site	Date				
	HD07*0062BE6	А	BO2A	2018-11-28				
	Amount UoM Unit type							
	80	mg	Each	ECOPACK [®] 3				
Comment	ECOPACK® 3 is STMicroelectronics trade name for ROHS compliant device without use of any ROHS exemption and without Halogen nor Antimony							

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	life.augmented				
Not Applicable	Nickel/Palladium/Gold (Ni/Pd/Au)	Copper Alloy		meradgmerned				

Package Designator	Size	Nbr of instances	Shape	
DSO	4.85x3.9x1.52	8	gull wing	
Comment	O7 SO 08 .15 JEDEC; MDF valid for TL062IE	TC		

QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-March 2015						
	Response					
1 - Product(s) meets EU RoHS requiremen	TRUE					
2 - Product(s) meets EU RoHS requiremen	FALSE					
3 - Product(s) meets EU RoHS requiremen	FALSE					
4 - Product(s) does not meet EU RoHS req	FALSE					
Exemption Id.	Description					

QueryList : REACH-27th June 2018								
	Response							
1 - Product(s) does not contain REACH Sul	TRUE							
CategoryLevel_Name	ppm in product							
;								
2 - Product(s) does not contain REACH definition within REACH	TRUE							
CategoryLevel_Name	CategoryLevel Threshold		Application - Article / Homogeneous Material	ppm in Article /Homogeneous Material				

iaterial Composition Declaration : ote : Substance present with less 0.001mg will not be declared in this document		Mfr Item Name	HDO7*0062BE6				4999998.0	1000007.0				
Homogeneous Material	Material Group	Mass	UoM	Level	Substance Category	Substance	CAS	Exempt	Mass	UoM	Concentration in homogeneous material (ppm)	Concentration in product (ppm)
Die	M-011 Other inorganic materials	1.089	mg	supplier	die	Silicon (Si)	7440-21-3		1.069	mg	981635	13363
				supplier	metallization	Aluminium (Al)	7429-90-5		0.009	mg	8264	113
				supplier	Passivation	Silicon Nitride	12033-89-5		0.005	mg	4591	63
				supplier	Passivation	Silicon Oxide	7631-86-9		0.006	mg	5510	75
Leadframe	M-004 Copper and its alloys	31.058	mg	supplier	alloy	Copper (Cu)	7440-50-8		29.810	mg	959817	372625
				supplier	alloy	Iron (Fe)	7439-89-6		0.701	mg	22571	8763
				supplier	alloy	Iron Phosphide (FeP)	26508-33-8		0.042	mg	1352	525
				supplier	alloy	Zinc (Zn)	7440-66-6		0.037	mg	1191	463
	M-006 Nickel and its alloys			supplier	metallization	Nickel (Ni)	7440-02-0		0.429	mg	13813	5363
	M-008 Precious metals			supplier	metallization	Palladium (Pd)	7440-05-3		0.027	mg	869	338
	M-008 Precious metals			supplier	metallization	Gold (Au)	7440-57-5		0.012	mg	386	150
Die attach	M-015 Other organic materials	0.424	mg	supplier	glue	Silver (Ag)	7440-22-4		0.373	mg	879717	4663
				supplier	glue	Isobornyl Methacrylate	7534-94-3		0.021	mg	49528	263
				supplier	glue	Acrylate resin	5888-33-5		0.021	mg	49528	263
				supplier	glue	Methyl acrylate polymer	87320-05-6		0.009	mg	21226	113
Bonding wires	M-011 Other inorganic materials	0.043	mg	supplier	wire	Copper (Cu)	7440-50-8		0.043	mg	1000000	538
Encapsulation	M-015 Other organic materials	47.386	mg	supplier	mold compound	Silica, vitreous	60676-86-0		41.036	mg	865994	512950
				supplier	mold compound	Epoxy Resin	Proprietary		3.554	mg	75001	44425
				supplier	mold compound	Phenol Resin	Proprietary		2.369	mg	49994	29613
				supplier	mold compound	Carbon black	1333-86-4		0.237	mg	5001	2963
				supplier	mold compound	Bismuth compound	7440-69-9		0.190	mg	4010	2375