



Material declaration form

General information			
IPC	1752	Version	2
Form type*	Distribute		
Sectionals*	Material information	Subsectionals*	A-D
	Manufacturing information		*: Required Field
Supplier information			
Company name*	STMicroelectronics	Response date*	2025-04-29
Authorized representative*	Cyrille Boulloud	Representative title	APMS Material 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
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				
Manufacturing item number	Manufacturing item name	Version	Manufacturing site	Date
VL53L8CHV0GC/1	H2GC*3L8KAAQ	C	ST SHENZHEN -CHINA	2025-04-29
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	45	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			

Manufacturing information				
J-STD-020 MSL rating	Classification temperature	Number of reflow cycles	Comment	
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Nickel/Gold (Ni/Au)	Copper Alloy	DM00950672 1F147729 1F140421	
Package designator	Package Size	Number of instances	Shape	
BGA	6.2 x 2.83	16	Bulk solder	
Comment	OPT. LGA 6.40X3.03X1.6 16 PINS			

QueryList : RoHS Directive 2011/65/EU - 8 June 2011 – Annex II amended by Delegated Directive 2015/863 - 31 March 2015	Response
1 - Product(s) meets EU RoHS requirement without any exemptions	true

QueryList : ELV directive : 2000/53/EC amended 2020/363_ March 2020	Response
1 - Product(s) meets EU ELV requirement without any exemptions	true

QueryList : California Prop65 list, dated 3rd January 2025	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	0.521	Die, substrate and capacitor	11578
Gallium Arsenide	0.047	VCSEL	1041

QueryList : Chinese RoHS , references : SJT 11364 – 2014 and GBT 26572 – 2014	Response
1 - Product(s) requires marking for the presence of restricted substances and must be marked with an Environmental Protection Use Period under China's Measures for Administration of the control of pollution by Electronic Information Products	false
2 - Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products	false

QueryList : REACH-21st January 2025	Response
1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH	true
2 - Product(s) does not contain REACH Substances Of Very High Concern in any Homogeneous Material above the limits per the definition within REACH	true

QueryList : Korea Chemical Control Act_ 27 Dec 2017 update	Response
The Product does contain at least one of the substances listed in Chemical Control Act	false



QueryList : Responsible metals sourcing	Response
The component is containing at least one of the following metals : Cobalt , Gold , Tantalum , Tin , Tungsten.	true
QueryList : China GB 33372-2020 Limit standard for volatile organic compounds content in adhesives - 4 March 2020 application date 1st December 2020	Response
The product contains adhesives identified under GB 33372	true
QueryList:Stockholm Convention Persistent Organic Pollutants (POP)	Response
Product is compliant with Annex A, B and C of Stockholm Convention Persistent Organic Pollutants	true
QueryList: EU Ship Recycling Regulation No. 1257/2013	Response
Product contains hazardous materials listed in Annex II of EU Ship Recycling Regulation No.1257/2013 and 2009/16/EC Directive	False
Other Fluorinated substance	Response
The product is containing fluorinated substance.	True
Substance Name, CAS	
Polytetrafluoroethylene, CAS 9002-84-0	True
BPA Declaration	Response
Product does not contain Bisphenol A (Isopropylidenediphenol)	True
Montreal Protocol	Response
Product does not contain Ozone Depleting Substances based on Annex I to Annex VII of EU REGULATION (EC) No 1005/2009	True
Environmental Protection Agency:Toxic Substances Control Act (TSCA). Section 6(h)	Response
Product does not contain Phenol, isopropylated, phosphate (3:1)	True



Material composition declaration - note - Substance present with less 0.001mg will not be declared in this document						Manufacturing Item name	H2GC3L8KAAQ		45.0000		1500000.0	100000.0	
Homogeneous material	Material group	Mass	Unit of measure	Level	Substance category	Substance	CAS	Exempt	Mass	Unit of measure	Concentration in homogeneous material (ppm)	Concentration in product (ppm)	
Dies	M-011 Other inorganic materials	4.875	mg	supplier	die	Silicon(Si)	7440-21-3		1.881	mg	385848	41800	
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.026	mg	5333	578	
				supplier	metallisation	Copper(Cu)	7440-50-8		0.144	mg	29538	3200	
				supplier	metallisation	Gold(Au)	7440-57-5		0.029	mg	5949	644	
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.073	mg	14974	1622	
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.003	mg	615	67	
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.019	mg	3897	422	
				supplier	passivation	Silicon Oxide	7631-86-9		0.097	mg	19897	2156	
				supplier	glass	Borosilicate glass	65997-17-3		2.583	mg	529846	57400	
				supplier	polymer coating	Polymer resist (color, planar, μlens)	proprietary		0.020	mg	4103	444	
Substrate	M-015 Other organic materials	13.392	mg	supplier	core material	Thermosetting resin (including filler)	proprietary		1.350	mg	100807	30000	
				supplier	core material	Fiber Glass wool	65997-17-3		0.717	mg	53539	15933	
				supplier	core material	Copper(Cu)	7440-50-8		0.010	mg	747	222	
				supplier	ABF	Fiber glass	65997-17-3		1.318	mg	98417	29289	
				supplier	ABF	Thermosetting resin	25722-66-1		0.827	mg	61753	18378	
				supplier	ABF	Amorphous silica	7631-86-9		0.238	mg	17772	5289	
				supplier	Solder mask	Acrylic resin	9003-01-4		0.861	mg	64292	19133	
				supplier	Solder mask	Barium sulfate	7727-43-7		0.120	mg	8961	2667	
				supplier	Solder mask	Silica vitreous	7631-86-9		0.120	mg	8961	2667	
				supplier	Solder mask	Talc	14807-96-6		0.060	mg	4480	1333	
supplier	Solder mask	Additive	proprietary		0.036	mg	2688	800					
	M-004 Copper and its alloys		mg	supplier	metallisation	Copper(Cu)	7440-50-8		7.228	mg	539725	160623	
	M-006 Nickel and its alloys		mg	supplier	California 65	Nickel(Ni)	7440-02-0		0.431	mg	32183	9578	
	M-008 Precious metals		mg	supplier	metallisation	Gold(Au)	7440-57-5		0.076	mg	5675	1689	
Glue Tx RX spacer & die to substrate	M-015 Other organic materials	0.194	mg	supplier	tape	Tin(Sn)	proprietary		0.122	mg	628866	2711	
				supplier	tape	Polypropylene	9003-07-0		0.004	mg	20619	89	
				supplier	tape	epoxy resin	29690-82-2		0.019	mg	97938	422	
				supplier	tape	Propenoate polymer	proprietary		0.039	mg	201031	867	
				supplier	tape	Bisphenol A diglycidyl ether	1675-54-3		0.010	mg	51546	222	
Glue VCSEL to substrate	M-015 Other organic materials	0.008	mg	supplier	glue	Silver(Ag)	7440-22-4		0.008	mg	1000000	178	
				supplier	wire	Gold(Au)	7440-57-5		0.111	mg	1000000	2467	
Bonding wire	M-008 Precious metals	0.111	mg	supplier	reflowed paste	Tin(Sn)	7440-31-5		0.038	mg	974359	844	
				supplier	reflowed paste	Silver(Ag)	7440-22-4		0.001	mg	25641	22	
Solder paste	M-010 Ceramics / glass	0.681	mg	supplier	glass	glass	65997-17-3		0.662	mg	972100	14711	
				supplier	coating	Silicon(Si)	7440-21-3		0.019	mg	27900	422	
Glass Rx	M-010 Ceramics / glass	0.831	mg	supplier	glass	glass	65997-17-3		0.817	mg	983153	18156	
				supplier	coating	Silicon(Si)	7440-21-3		0.008	mg	9627	178	
Capacitor 4.7nF 01005	M-010 Ceramics / glass	0.300	mg	supplier	coating	Tantalum(Ta)	7440-25-7		0.006	mg	7220	133	
				supplier	ceramic	Barium oxide	1304-28-5		0.098	mg	326666	2178	
	M-011 Other inorganic materials	0.300	mg	supplier	ceramic	Titanium dioxide	13463-67-7		0.065	mg	216667	1444	
				supplier	California 65	metallisation	Nickel(Ni)	7440-02-0		0.017	mg	56667	378
				supplier	electrode	Copper(Cu)	7440-50-8		0.087	mg	290000	1933	
				supplier	glass	Borosilicate glass	65997-17-3		0.010	mg	33333	222	
				supplier	metallization	Tin	7440-31-5		0.023	mg	76667	511	
Spacer	M-011 Other inorganic materials	3.828	mg	supplier	interposer	SILICON	7440-21-3		3.790	mg	990073	84222	
				supplier	metallisation	BORON	7440-42-8		0.038	mg	9927	844	
Cap MZ	M-015 Other organic materials	17.198	mg	supplier	polymer	1,4-Benzenedicarboxylic acid polymer with 2-m	169284-22-4		9.459	mg	550006	210202	
				supplier	polymer	Carbon black	1333-86-4		0.860	mg	50006	19111	
				supplier	polymer	Wollastonite	13983-17-0		6.879	mg	399988	152868	
Glue filter & lens (Rx + Tx) to cap or spac	M-015 Other organic materials	0.153	mg	supplier	glue	Diglycidyl bisphenol F	39817-09-9		0.073	mg	477123	1622	
				supplier	glue	Tetrafluoroethylene	9002-84-0		0.046	mg	300654	1022	
				supplier	glue	Epoxypropoxy butane polymer	2425-79-8		0.023	mg	150327	511	
				supplier	glue	Silica vitreous	60676-86-0		0.002	mg	13072	44	
				supplier	glue	Polyoxypropylenediamine	9046-10-0		0.006	mg	39216	133	
	M-015 Other organic materials	0.139	mg	supplier	glue	Carbon black	1333-86-4		0.002	mg	13072	44	
				supplier	glue	Titanium oxide	13463-67-7		0.001	mg	6536	22	
				supplier	glue	Bisphenol F type epoxy resin	9003-36-5		0.069	mg	496403	1533	



			supplier	glue	Methyleneoxymethylene_dioxirane	50985-55-2		0.028	mg	201439	622
			supplier	glue	Epoxy resin	25068-38-6		0.007	mg	50360	156



				supplier	glue	Filler	proprietary		0.033	mg	237410	733
				supplier	glue	Aluminium oxide	1344-28-1		0.001	mg	7194	22
				supplier	glue	Carbon black	1333-86-4		0.001	mg	7194	22
VCSEL Orion	M-011 Other inorganic materials	0.051	mg	California 65	die	Gallium arsenide	1303-00-0		0.047	mg	918088	1041
				supplier	metallisation	Gold	7440-57-5		0.004	mg	81912	93
Liner	M-015 Other organic materials	3.200	mg	supplier	polymer	Polyimide film	62929-02-6		2.080	mg	650000	46222
				supplier	polymer	2-Propenoic acid, 2-methyl-, butyl ester, polym	24938-16-7		1.120	mg	350000	24889