



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*	2025-04-24
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
VL53L7CHV0GC/1	HLGC*3L5KCAQ	C	ST SHENZHEN -CHINA	2025-04-24
	Amount	Unit of measure	Unit type	ST ECOPACK grade
	49	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		
3	260	3		
Bulk solder termination	Terminal plating	Terminal base alloy	Comment	
Not Applicable	Nickel/Gold (Ni/Au)	Copper Alloy	DM01124561 1F147925 1F140421	
Package designator	Package Size	Number of instances	Shape	
LGA	6.2 x 2.83	16	Flat	
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	0.515	Die, substrate and capacitor	10450
Gallium Arsenide	0.024	VCSEL	491

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	HLGC3LSKCAQ		49.2800		1400000.0	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	4.452	mg	supplier	die	Silicon(Si)	7440-21-3		1.880	mg	422283	38149								
				supplier	metallisation	Aluminium(Al)	7429-90-5		0.026	mg	5840	528								
				supplier	metallisation	Copper(Cu)	7440-50-8		0.144	mg	32345	2922								
				supplier	metallisation	Gold(Au)	7440-57-5		0.024	mg	5391	487								
				supplier	metallisation	Nickel(Ni)	7440-02-0		0.073	mg	16397	1481								
				supplier	metallisation	Titanium(Ti)	7440-32-6		0.002	mg	449	41								
				supplier	Passivation	Silicon Nitride (SiN)	12033-89-5		0.019	mg	4268	386								
				supplier	passivation	Silicon Oxide	7631-86-9		0.094	mg	21114	1907								
				supplier	glass	Borosilicate glass	65997-17-3		2.170	mg	487421	44034								
				supplier	polymer coating	Polymer resist (color, planar, μlens)	proprietary		0.020	mg	4492	406								
				Substrate	M-015 Other organic materials	13.855	mg	supplier	core material	Thermosetting resin (including filler)	proprietary		1.338	mg	96571	27151				
								supplier	core material	Fiber Glass wool	65997-17-3		0.710	mg	51245	14407				
								supplier	core material	Copper(Cu)	7440-50-8		0.010	mg	722	203				
supplier	prepreg	Fiber glass	65997-17-3						1.276	mg	92097	25893								
supplier	prepreg	Thermosetting resin	25722-66-1						0.801	mg	57813	16254								
supplier	prepreg	Amorphous silica	7631-86-9						0.231	mg	16673	4688								
supplier	Solder mask	Acrylic resin	9003-01-4						0.857	mg	61855	17390								
supplier	Solder mask	Barium sulfate	7727-43-7						0.119	mg	8589	2415								
supplier	Solder mask	Silica vitreous	7631-86-9						0.119	mg	8589	2415								
supplier	Solder mask	Talc	14807-96-6						0.060	mg	4331	1218								
supplier	Solder mask	Additive	proprietary						0.036	mg	2598	731								
supplier	metallisation	Copper(Cu)	7440-50-8						7.797	mg	562757	158218								
supplier	California 65	Nickel(Ni)	7440-02-0						0.425	mg	30675	8624								
Die attach on substrate	M-008 Precious metals	0.170	mg	supplier	metallisation	Gold(Au)	7440-57-5		0.076	mg	5485	1542								
				supplier	tape	Tin(Sn)	proprietary		0.107	mg	629412	2171								
				supplier	tape	Polypropylene	9003-07-0		0.003	mg	17647	61								
				supplier	tape	epoxy resin	29690-82-2		0.017	mg	100000	345								
				supplier	tape	Propenoate polymer	proprietary		0.034	mg	200000	690								
				supplier	tape	Bisphenol A diglycidyl ether	1675-54-3		0.009	mg	52941	183								
				vcsel glue	M-015 Other organic materials	0.007	mg	supplier	glue	Silver(Ag)	7440-22-4		0.006	mg	857143	122				
								supplier	glue	Bisphenol F type epoxy resin	9003-36-5		0.001	mg	142857	20				
								supplier	wire	Gold(Au)	7440-57-5		0.086	mg	1000000	1745				
								Bonding wire	M-008 Precious metals	0.086	mg	supplier	reflowed paste	Tin(Sn)	7440-31-5		0.038	mg	974359	771
												supplier	reflowed paste	Silver(Ag)	7440-22-4		0.001	mg	25641	20
												supplier	ceramic	Barium oxide	1304-28-5		0.098	mg	326666	1989
												supplier	ceramic	Titanium dioxide	13463-67-7		0.065	mg	216667	1319
supplier	California 65	Nickel(Ni)	7440-02-0										0.017	mg	56667	345				
supplier	electrode	Copper(Cu)	7440-50-8										0.087	mg	290000	1765				
supplier	glass	Borosilicate glass	65997-17-3										0.010	mg	33333	203				
supplier	metallization	Tin	7440-31-5										0.023	mg	76667	467				
Glass Rx	M-010 Ceramics / glass	1.660	mg									supplier	glass	glass	65997-17-3		1.634	mg	984337	33157
												supplier	coating	Silicon(Si)	7440-21-3		0.015	mg	9036	304
				supplier	coating	Tantalum(Ta)	7440-25-7						0.011	mg	6627	223				
Cap Housing	M-015 Other organic materials	20.000	mg	supplier	polymer	1,4-Benzenedicarboxylic acid polymer with 2-methyl-2-propanoic acid	169284-22-4						11.000	mg	550000	223214				
				supplier	polymer	Carbon black	1333-86-4						1.000	mg	50000	20292				
				supplier	polymer	Wollastonite	13983-17-0		8.000	mg	400000	162338								
Liner	M-015 Other organic materials	3.211	mg	supplier	polymer	Polyimide film	62929-02-6		2.087	mg	649553	42350								
				supplier	polymer	2-Propenoic acid, 2-methyl-, butyl ester, polymer	24938-16-7		1.124	mg	350047	22808								
Spacer	M-011 Other inorganic materials	5.006	mg	supplier	interposer	SILICON	7440-21-3		4.956	mg	990012	100568								
				supplier	metallisation	BORON	7440-42-8		0.050	mg	9988	1015								
				supplier	glue	Diglycidyl bisphenol F	39817-09-9		0.096	mg	480000	1948								
Glue lens (Tx + Rx) to cap, Rx filter to sp	M-015 Other organic materials	0.200	mg	supplier	glue	Tetrafluoroethylene	9002-84-0		0.060	mg	300000	1218								
				supplier	glue	Epoxypropoxy butane polymer	2425-79-8		0.030	mg	150000	609								
				supplier	glue	Silica vitreous	60676-86-0		0.003	mg	15000	61								
				supplier	glue	Polyoxypropylenediamine	9046-10-0		0.008	mg	40000	162								
				supplier	glue	Carbon black	1333-86-4		0.002	mg	10000	41								
				supplier	glue	Titanium oxide	13463-67-7		0.001	mg	5000	20								



Glue cap on subst	M-015 Other organic materials	0.268	mg	supplier	glue	Bisphenol F type epoxy resin	9003-36-5		0.135	mg	503732	2739
				supplier	glue	Methyleneoxymethylene_dioxirane	50985-55-2		0.054	mg	201493	1096



				supplier	glue	Epoxy resin	25069-38-6		0.013	mg	48507	264
				supplier	glue	Filler	proprietary		0.064	mg	238806	1299
				supplier	glue	Aluminium oxide	1344-28-1		0.001	mg	3731	20
				supplier	glue	Carbon black	1333-86-4		0.001	mg	3731	20
VCSEL Chip Array NEBULA 940nm	M-011 Other inorganic materials	0.026	mg	California 65	die	GaAs	1303-00-0		0.024	mg	930000	491
				supplier	metallisation	AlGaAs	37382-15-3		0.002	mg	70000	37