

Material Declaration Form

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ams AG
Tobelbader Strasse 30
A-8141 Premstaetten, Austria
Tel +43 (0) 3136 500-0



Ordering Code	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China RoHS	Release Status	Version
TMD37253SH235V	OLGA	503020046	8	60.09	Taiwan	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Substrate	2.32	Au	Gold	0.50	7440-57-5	0.01160	0.01930	193
		Cu	Copper	55.00	7440-50-8	1.27600	2.12348	21235
		Ni	Nickel	2.00	7440-02-0	0.04640	0.07722	772
			Bismaleimide Triazine	3.50	35325-39-4	0.08120	0.13513	1351
			Filament Fiber Glass	25.00	65997-17-3	0.58000	0.96522	9652
			Inorganic Filler	14.00	21645-51-2	0.32480	0.54052	5405
		Subtotal:				100.00		2.32000
Solder Mask	0.41	SiO2	Silica	1.00	7631-86-9	0.00410	0.00682	68
			Barium Sulfate	75.00	7727-43-7	0.30750	0.51173	5117
			Carbon Black	1.00	1333-86-4	0.00410	0.00682	68
			Dipropylene glycol monomethyl ether	18.00	34590-94-8	0.07380	0.12282	1228
			Talc	5.00	14807-96-6	0.02050	0.03412	341
Subtotal:				100.00		0.41000	0.68231	6823
Adhesive (ASIC)	0.04	Ag	Silver	85.00	7440-22-4	0.03400	0.05658	566
			Epoxy Resin	15.00	25928-94-3	0.00600	0.00999	100
Subtotal:				100.00		0.04000	0.06657	666
IC	0.37	Si	Silicon	100.00	7440-21-3	0.37000	0.61574	6157
		Subtotal:				100.00		0.37000

The information provided in this statement represents ams AG knowledge and belief as of the date that it is provided. ams AG bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. ams AG has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. ams AG and its suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Adhesive (LED)	0.01	Ag	Silver	90.00	7440-22-4	0.00900	0.01498	150
			Neopentyl glycol, monobenzoate monoacrylate	10.00	66671-22-5	0.00100	0.00166	17
Subtotal:				100.00		0.01000	0.01664	166
LED Die (950nm)	0.02	Al	Aluminum	0.70	7429-90-5	0.00014	0.00023	2
		As	Arsenic	5.02	7440-38-2	0.00100	0.00167	17
		Au	Gold	12.69	7440-57-5	0.00254	0.00422	42
		Ga	Gallium	2.89	7440-55-3	0.00058	0.00096	10
		In	Indium	0.00	7440-74-8	0.00000	0.00000	0
		Si	Silicon	78.70	7440-21-3	0.01574	0.02619	262
Subtotal:				100.00		0.02000	0.03328	333
Wire	0.05	Au	Gold	100.00	7440-57-5	0.05000	0.08321	832
Subtotal:				100.00		0.05000	0.08321	832
LID Epoxy	0.07		Carbon Black	3.00	1333-86-4	0.00210	0.00349	35
			Epoxy Resin	92.00	25085-99-8	0.06440	0.10717	1072
			Silica Dioxide	5.00	67762-90-7	0.00350	0.00582	58
Subtotal:				100.00		0.07000	0.11649	1165
LCP LID	5.09		Carbon Black	5.00	1333-86-4	0.25450	0.42353	4235
			Glass oxide	60.00	65997-17-3	3.05400	5.08238	50824
			Liquid crystal polymers	35.00	147310-94-9	1.78150	2.96472	29647
Subtotal:				100.00		5.09000	8.47063	84706

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Moldcompound	1.72		2,6-Ditert.butyl-4-Methyl	1.00	128-37-0	0.01720	0.02862	286
			Epoxy Resin	99.00	25068-38-6	1.70280	2.83375	28337
		Subtotal:		100.00		1.72000	2.86237	28624
Interposer	49.2	Cu	Copper	5.70	7440-50-8	2.80440	4.66700	46670
			DOPO	5.00	35948-25-5	2.46000	4.09386	40939
			E-Glass Fabric	47.20	65997-17-3	23.22240	38.64603	386460
			Epoxy Resin	39.80	29690-82-2	19.58160	32.58712	325871
			Fillers	2.30	21645-51-2	1.13160	1.88318	18832
			Subtotal:	100.00	49.20000	81.87718	818772	
Solder Paste	0.79	Ag	Silver	3.00	7440-22-4	0.02370	0.03944	394
			Cu	0.50	7440-50-8	0.00395	0.00657	66
			Sn	96.50	7440-31-5	0.76235	1.26868	12687
			Subtotal:	100.00	0.79000	1.31469	13147	
Total:	60.09					60.09	100.00000	1000000

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