

Product Document

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
TMD37253SH245V	OLGA	503020052	8	62.09	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	0.01868	187	
		Cu	Copper	55.00	7440-50-8	1.27600	2.05508	20551	
		Ni	Nickel	2.00	7440-02-0	0.04640	0.07473	747	
			Bismaleimide Triazine	3.50	35325-39-4	0.08120	0.13078	1308	
			Filament Fiber Glass	25.00	65997-17-3	0.58000	0.93413	9341	
			Inorganic Filler	14.00	21645-51-2	0.32480	0.52311	5231	
	Subtotal:			100.00		2.32000	3.73651	37365	
Solder Mask	0.41	SiO2	Silica	1.00	7631-86-9	0.00410	0.00660	66	
			Barium Sulfate	75.00	7727-43-7	0.30750	0.49525	4952	
			Carbon Black	1.00	1333-86-4	0.00410	0.00660	66	
			Dipropylene glycol monomethyl ether	18.00	34590-94-8	0.07380	0.11886	1189	
			Talc	5.00	14807-96-6	0.02050	0.03302	330	
	Subtotal:			100.00		0.41000	0.66033	6603	
Adhesive (ASIC)	0.04	Ag	Silver	85.00	7440-22-4	0.03400	0.05476	548	
			Epoxy Resin	15.00	25928-94-3	0.00600	0.00966	97	
	Subtotal:			100.00		0.04000	0.06442	644	
IC	0.37	Si	Silicon	100.00	7440-21-3	0.37000	0.59591	5959	
			Subtotal:			100.00	0.37000	0.59591	5959

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	0.01450	145
			Neopentyl glycol, monobenzoate monoacrylate	10.00	66671-22-5	0.00100	0.00161	16
Subtotal:				100.00		0.01000	0.01611	161
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	0.00162	16
		Au	Gold	12.69	7440-57-5	0.00254	0.00409	41
		Ga	Gallium	2.89	7440-55-3	0.00058	0.00093	9
		In	Indium	0.00	7440-74-8	0.00000	0.00000	0
		Si	Silicon	78.70	7440-21-3	0.01574	0.02535	254
Subtotal:				100.00		0.02000	0.03221	322
Wire	0.05	Au	Gold	100.00	7440-57-5	0.05000	0.08053	805
Subtotal:				100.00		0.05000	0.08053	805
LID Epoxy	0.07		Carbon Black	3.00	1333-86-4	0.00210	0.00338	34
			Epoxy Resin	92.00	25085-99-8	0.06440	0.10372	1037
			Silica Dioxide	5.00	67762-90-7	0.00350	0.00564	56
Subtotal:				100.00		0.07000	0.11274	1127
LCP LID	5.09		Carbon Black	5.00	1333-86-4	0.25450	0.40989	4099
			Glass oxide	60.00	65997-17-3	3.05400	4.91867	49187
			Liquid crystal polymers	35.00	147310-94-9	1.78150	2.86922	28692
Subtotal:				100.00		5.09000	8.19778	81978

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Moldcompound	1.72		2,6-Ditert.butyl-4-Methyl	1.00	128-37-0	0.01720	0.02770	277
			Epoxy Resin	99.00	25068-38-6	1.70280	2.74247	27425
		Subtotal:		100.00		1.72000	2.77017	27702
Interposer	51.2	Cu	Copper	5.70	7440-50-8	2.91840	4.70027	47003
			DOPO	5.00	35948-25-5	2.56000	4.12305	41230
			E-Glass Fabric	47.20	65997-17-3	24.16640	38.92157	389216
			Epoxy Resin	39.80	29690-82-2	20.37760	32.81946	328195
			Fillers	2.30	21645-51-2	1.17760	1.89660	18966
			Subtotal:	100.00	51.20000	82.46094	824609	
Solder Paste	0.79	Ag	Silver	3.00	7440-22-4	0.02370	0.03817	382
		Cu	Copper	0.50	7440-50-8	0.00395	0.00636	64
		Sn	Tin	96.50	7440-31-5	0.76235	1.22781	12278
		Subtotal:	100.00	0.79000	1.27235	12723		
Total:	62.09					62.09	100.00000	1000000

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