

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
AS3701A-BWLM-ES	WLCSP	193720026	17	5.12	Philippines	YES	YES	YES	PROTOS	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC	3.7	Si	Silicon	100.00	7440-21-3	3.69684	72.21646	722165
Subtotal:				100.00		3.69684	72.21646	722165
PBO 1	0.03	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.01548	0.30230	3023
			Polyamide	50.00	63428-83-1	0.01548	0.30230	3023
Subtotal:				100.00		0.03095	0.60460	6046
PBO 2	0.03	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.01372	0.26802	2680
			Polyamide	50.00	63428-83-1	0.01372	0.26802	2680
Subtotal:				100.00		0.02744	0.53603	5360
UBM Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00009	0.00168	17
		W	Tungsten	90.00	7440-33-7	0.00077	0.01512	151
Subtotal:				100.00		0.00086	0.01680	168
UBM Seed Layer Cu	0	Cu	Copper	100.00	7440-50-8	0.00131	0.02559	256
Subtotal:				100.00		0.00131	0.02559	256
UBM Cu	0.06	Cu	Copper	100.00	7440-50-8	0.05902	1.15293	11529
Subtotal:				100.00		0.05902	1.15293	11529
RDL Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00034	0.00658	66
		W	Tungsten	90.00	7440-33-7	0.00303	0.05925	592
Subtotal:				100.00		0.00337	0.06583	658
RDL Seed Layer Cu	0.01	Cu	Copper	100.00	7440-50-8	0.00519	0.10138	1014
Subtotal:				100.00		0.00519	0.10138	1014

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)
RDL Cu	0.1	Cu	Copper	100.00	7440-50-8	0.10383	2.02828	20283
Subtotal:				100.00		0.10383	2.02828	20283
Solder Balls	1.04	Ag	Silver	4.00	7440-22-4	0.04148	0.81030	8103
		Cu	Copper	0.50	7440-50-8	0.00519	0.10129	1013
		Sn	Tin	95.50	7440-31-5	0.99034	19.34603	193460
Subtotal:				100.00		1.03701	20.25762	202576
Laminate	0.15	SiO2	Silica	20.00	7631-86-9	0.03066	0.59889	5989
			Carbon Black	0.30	1333-86-4	0.00046	0.00898	90
			Phenol/ formaldehyde/ epichloronhydrin copolymer	5.70	9003-36-5	0.00874	0.17068	1707
			Polyethylene terephthalate	74.00	25038-59-9	0.11343	2.21590	22159
Subtotal:				100.00		0.15329	2.99447	29945
Total:	5.12					5.12	100.00000	1000000

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