Product Document

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Material Declaration Form

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-BWLT-51	WLCSP	193720051	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**

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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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