

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
AS3715-BWLM-24	WLCSP	192370060	81	15.07	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	12.16	Si	Silicon	100.00	7440-21-3	12.15520	80.66463	806646
Subtotal:				100.00		12.15520	80.66463	806646
PBO 1	0.1	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.05186	0.34412	3441
			Polyamide	50.00	63428-83-1	0.05186	0.34412	3441
Subtotal:				100.00		0.10371	0.68824	6882
PBO 2	0.09	BLO (1-10)	Gamma Butyrolactone	50.00	96-48-0	0.04459	0.29591	2959
			Polyamide	50.00	63428-83-1	0.04459	0.29591	2959
Subtotal:				100.00		0.08918	0.59182	5918
UBM Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00041	0.00272	27
		W	Tungsten	90.00	7440-33-7	0.00369	0.02449	245
Subtotal:				100.00		0.00410	0.02721	272
UBM Seed Layer Cu	0.01	Cu	Copper	100.00	7440-50-8	0.00636	0.04221	422
Subtotal:				100.00		0.00636	0.04221	422
UBM Cu	0.29	Cu	Copper	100.00	7440-50-8	0.28601	1.89803	18980
Subtotal:				100.00		0.28601	1.89803	18980
RDL Seed Layer TiW	0.01	Ti	Titanium	10.00	7440-32-6	0.00118	0.00785	79
		W	Tungsten	90.00	7440-33-7	0.01065	0.07066	707
Subtotal:				100.00		0.01183	0.07851	785
RDL Seed Layer Cu	0.02	Cu	Copper	100.00	7440-50-8	0.01826	0.12118	1212
Subtotal:				100.00		0.01826	0.12118	1212

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	0.37	Cu	Copper	100.00	7440-50-8	0.36513	2.42308	24231
Subtotal:				100.00		0.36513	2.42308	24231
Solder Balls	1.53	Ag	Silver	4.00	7440-22-4	0.06100	0.40481	4048
		Cu	Copper	0.50	7440-50-8	0.00763	0.05060	506
		Sn	Tin	95.50	7440-31-5	1.45638	9.66489	96649
Subtotal:				100.00		1.52501	10.12031	101203
Laminate	0.5	SiO2	Silica	20.00	7631-86-9	0.10080	0.66896	6690
			Carbon Black	0.30	1333-86-4	0.00151	0.01003	100
			Phenol/ formaldehyde/ epichloronhydrin copolymer	5.70	9003-36-5	0.02873	0.19065	1907
			Polyethylene terephthalate	74.00	25038-59-9	0.37297	2.47514	24751
Subtotal:				100.00		0.50402	3.34479	33448
Total:	15.07					15.07	100.00000	1000000

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