

Material Declaration Form

Page 1

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



Ordering Code	Production Version	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China Rohs	Release Status	Report Version
AS7058A-BWLM / AS7058A-BWLT	514070037P1	WLCSP	514070037	42	9.01	Philippines	YES	YES	YES	FULL	1

Production Version: 514070037P1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC	5.76	Si	Silicon	100.00	7440-21-3	5.75892	63.89790	638979
Subtotal:				100.00		5.75892	63.89790	638979
PBO 1	0.06	BLO (1-10)	Gamma Butyrolactone	0.05	96-48-0	0.00003	0.00031	3
			Polyamide	99.95	63428-83-1	0.05525	0.61305	6131
Subtotal:				100.00		0.05528	0.61336	6134
PBO 2	0.05	BLO (1-10)	Gamma Butyrolactone	0.05	96-48-0	0.00002	0.00026	3
			Polyamide	99.95	63428-83-1	0.04768	0.52899	5290
Subtotal:				100.00		0.04770	0.52925	5293
UBM Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00021	0.00234	23
		W	Tungsten	90.00	7440-33-7	0.00190	0.02107	211
Subtotal:				100.00		0.00211	0.02341	234
UBM Seed Layer Cu	0	Cu	Copper	100.00	7440-50-8	0.00325	0.03606	361
Subtotal:				100.00		0.00325	0.03606	361
UBM Cu	0.15	Cu	Copper	100.00	7440-50-8	0.14641	1.62449	16245
Subtotal:				100.00		0.14641	1.62449	16245

The information provided in this statement represents our knowledge and belief as of the date that it is provided. We base our knowledge and belief on information provided by third parties and make no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. We have taken and continue 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. We and our suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.



Ordering Code	Production Version	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China Rohs	Release Status	Report Version
AS7058A-BWLM / AS7058A-BWLT	514070037P1	WLCSP	514070037	42	9.01	Philippines	YES	YES	YES	FULL	1

Production Version: 514070037P1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
RDL Seed Layer TiW	0	Ti	Titanium	10.00	7440-32-6	0.00042	0.00465	46
		W	Tungsten	90.00	7440-33-7	0.00377	0.04184	418
		Subtotal:		100.00		0.00419	0.04649	465
RDL Seed Layer Cu	0.01	Cu	Copper	100.00	7440-50-8	0.00645	0.07157	716
		Subtotal:		100.00		0.00645	0.07157	716
RDL Cu	0.13	Cu	Copper	100.00	7440-50-8	0.12907	1.43209	14321
		Subtotal:		100.00		0.12907	1.43209	14321
Solder Balls	2.56	Ag	Silver	4.00	7440-22-4	0.10248	1.13706	11371
		Cu	Copper	0.50	7440-50-8	0.01281	0.14213	1421
		Sn	Tin	95.50	7440-31-5	2.44671	27.14739	271474
		Subtotal:		100.00		2.56200	28.42659	284266

The information provided in this statement represents our knowledge and belief as of the date that it is provided. We base our knowledge and belief on information provided by third parties and make no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. We have taken and continue 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. We and our suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.



Ordering Code	Production Version	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China Rohs	Release Status	Report Version
AS7058A-BWLM / AS7058A-BWLT	514070037P1	WLCSP	514070037	42	9.01	Philippines	YES	YES	YES	FULL	1

Production Version: 514070037P1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Laminate	0.3	10H13CIO3	Phenol/ formaldehyde/ epichloronhydrin copolymer	5.70	9003-36-5	0.01695	0.18803	1880
		SiO2	Silica	20.00	7631-86-9	0.05946	0.65976	6598
			Carbon Black	0.30	1333-86-4	0.00089	0.00990	99
			Polyethylene terephthalate	74.00	25038-59-9	0.22001	2.44111	24411
Subtotal:				100.00		0.29731	3.29879	32988
Total:	9.01					9.01	100.00000	1000000

The information provided in this statement represents our knowledge and belief as of the date that it is provided. We base our knowledge and belief on information provided by third parties and make no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. We have taken and continue 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. We and our suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.