Product Document

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Ordering Code	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China RoHS	Release Status	Version
TMD49033	OLGA	300590052	8	14.28	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	3.18	Au	Gold	0.50	7440-57-5	0.01590	0.11134	1113
		Cu	Copper	55.00	7440-50-8	1.74900	12.24790	122479
		Ni	Nickel	2.00	7440-02-0	0.06360	0.44538	4454
			Bismaleimide Triazine	3.50	35325-39-4	0.11130	0.77941	7794
			Filament Fiber Glass	25.00	65997-17-3	0.79500	5.56723	55672
			Inorganic Filler	14.00	21645-51-2	0.44520	3.11765	31176
		Subtotal:		100.00		3.18000	22.26891	222689
Solder Mask	0.56	SiO2	Silica	1.00	7631-86-9	0.00560	0.03922	392
			Barium Sulfate	75.00	7727-43-7	0.42000	2.94118	29412
			Carbon Black	1.00	1333-86-4	0.00560	0.03922	392
			Dipropylene glycol monomethyl ether	18.00	34590-94-8	0.10080	0.70588	7059
			Talc	5.00	14807-96-6	0.02800	0.19608	1961
		Subtotal:		100.00		0.56000	3.92157	39216
Adhesive (ASIC)	0.07	Ag	Silver	85.00	7440-22-4	0.05950	0.41667	4167
			Epoxy Resin	15.00	25928-94-3	0.01050	0.07353	735
		Subtotal:		100.00		0.07000	0.49020	4902
IC	0.59	Si	Silicon	100.00	7440-21-3	0.59000	4.13165	41317
		Subtotal:		100.00		0.59000	4.13165	41317

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Page 2				-	A-8141 Prer	nstaetten, Austria 43 (0) 3136 500-0		
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	0.06303	630
			Neopentyl glycol, monobenzoate monoacrylate	10.00	66671-22-5	0.00100	0.00700	70
		Subtotal:		100.00		0.01000	0.07003	700
LED Die (950nm)	0.03	AI	Aluminum	0.70	7429-90-5	0.00021	0.00147	15
		As	Arsenic	5.02	7440-38-2	0.00151	0.01055	105
		Au	Gold	12.69	7440-57-5	0.00381	0.02666	267
		Ga	Gallium	2.89	7440-55-3	0.00087	0.00607	61
		In	Indium	0.00	7440-74-8	0.00000	0.00000	0
		Si	Silicon	78.70	7440-21-3	0.02361	0.16534	1653
		Subtotal:		100.00		0.03000	0.21008	2101
Wire	0.06	Au	Gold	100.00	7440-57-5	0.06000	0.42017	4202
		Subtotal:		100.00		0.06000	0.42017	4202
LID Epoxy	0.04		Carbon Black	3.00	1333-86-4	0.00120	0.00840	84
			Epoxy Resin	92.00	25085-99-8	0.03680	0.25770	2577
			Silica Dioxide	5.00	67762-90-7	0.00200	0.01401	140
		Subtotal:		100.00		0.04000	0.28011	2801
LCP LID	7.04		Carbon Black	5.00	1333-86-4	0.35200	2.46499	24650
			Glass oxide	60.00	65997-17-3	4.22400	29.57983	295798
			Liquid crystal polymers	35.00	147310-94-9	2.46400	17.25490	172549
		Subtotal:		100.00		7.04000	49.29972	492997

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Material Declaration Form

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ams AG Tobelbader Strasse 30

Material Declaration Form Page 3	_				A-8141 Prems	ams AG ader Strasse 30 staetten, Austria 3 (0) 3136 500-0	an	1
Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Moldcompound	2.7	1	2,6-Ditert.butyl-4- Methyl	1.00	128-37-0	0.02700	0.18908	1891
			Epoxy Resin	99.00	25068-38-6	2.67300	18.71849	187185
		Subtotal:		100.00		2.70000	18.90756	189076
Total:	14.28					14.28	100.00000	1000000

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