

# 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
TMD26203M	OLGA	502390010	8	9.78	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	1.27	Au	Gold	0.50	7440-57-5	0.00634	0.06479	648
		Cu	Copper	55.00	7440-50-8	0.69696	7.12685	71268
		Ni	Nickel	2.00	7440-02-0	0.02534	0.25916	2592
			Bismaleimide Triazine	3.50	35325-39-4	0.04435	0.45353	4535
			Filament Fiber Glass	25.00	65997-17-3	0.31680	3.23948	32395
			Inorganic Filler	14.00	21645-51-2	0.17741	1.81411	18141
<b>Subtotal:</b>				<b>100.00</b>		<b>1.26720</b>	<b>12.95790</b>	<b>129579</b>
Solder Mask	0.23	SiO2	Silica	1.00	7631-86-9	0.00226	0.02314	231
			Barium Sulfate	75.00	7727-43-7	0.16973	1.73554	17355
			Carbon Black	1.00	1333-86-4	0.00226	0.02314	231
			Dipropylene glycol monomethyl ether	18.00	34590-94-8	0.04073	0.41653	4165
			Talc	5.00	14807-96-6	0.01132	0.11570	1157
<b>Subtotal:</b>				<b>100.00</b>		<b>0.22630</b>	<b>2.31406</b>	<b>23141</b>
Adhesive (ASIC)	0.02	Ag	Silver	85.00	7440-22-4	0.01870	0.19122	1912
			Epoxy Resin	15.00	25928-94-3	0.00330	0.03374	337
<b>Subtotal:</b>				<b>100.00</b>		<b>0.02200</b>	<b>0.22496</b>	<b>2250</b>
IC	0.24	Si	Silicon	100.00	7440-21-3	0.23900	2.44392	24439
<b>Subtotal:</b>				<b>100.00</b>		<b>0.23900</b>	<b>2.44392</b>	<b>24439</b>

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)
Adhesive (LED)	0.01	Ag	Silver	90.00	7440-22-4	0.00990	0.10123	1012
			Neopentyl glycol, monobenzoate monoacrylate	10.00	66671-22-5	0.00110	0.01125	112
			<b>Subtotal:</b>	<b>100.00</b>		<b>0.01100</b>	<b>0.11248</b>	<b>1125</b>
LED Die (950nm)	0.03	Al	Aluminum	0.70	7429-90-5	0.00023	0.00240	24
		As	Arsenic	5.02	7440-38-2	0.00169	0.01725	172
		Au	Gold	12.69	7440-57-5	0.00426	0.04360	436
		Ga	Gallium	2.89	7440-55-3	0.00097	0.00993	99
		In	Indium	0.00	7440-74-8	0.00000	0.00000	0
		Si	Silicon	78.70	7440-21-3	0.02644	0.27040	2704
<b>Subtotal:</b>	<b>100.00</b>			<b>0.03360</b>	<b>0.34358</b>	<b>3436</b>		
Wire	0.04	Au	Gold	100.00	7440-57-5	0.04126	0.42191	4219
<b>Subtotal:</b>	<b>100.00</b>				<b>0.04126</b>	<b>0.42191</b>	<b>4219</b>	
LID Epoxy	0.14		Carbon Black	3.00	1333-86-4	0.00429	0.04387	439
			Epoxy Resin	92.00	25085-99-8	0.13156	1.34528	13453
			Silica Dioxide	5.00	67762-90-7	0.00715	0.07311	731
<b>Subtotal:</b>	<b>100.00</b>				<b>0.14300</b>	<b>1.46226</b>	<b>14623</b>	
LCP LID	4.75		Carbon Black	5.00	1333-86-4	0.23750	2.42858	24286
			Glass oxide	60.00	65997-17-3	2.85000	29.14301	291430
			Liquid crystal polymers	35.00	147310-94-9	1.66250	17.00009	170001
<b>Subtotal:</b>	<b>100.00</b>				<b>4.75000</b>	<b>48.57169</b>	<b>485717</b>	

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Moldcompound	3.05		2,6-Ditert.butyl-4-Methyl	1.00	128-37-0	0.03046	0.31147	3115
			Epoxy Resin	99.00	25068-38-6	3.01554	30.83576	308358
			<b>Subtotal:</b>	<b>100.00</b>		<b>3.04600</b>	<b>31.14723</b>	<b>311472</b>
<b>Total:</b>	<b>9.78</b>					<b>9.78</b>	<b>100.00000</b>	<b>1000000</b>

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