

# Product Document

# Material Declaration Form

Page 1

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
AS5215F-HMFP	MLF	180850084	32	136.31	Philippines	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Leadframe	70.91	Ag	Silver	0.30	7440-22-4	0.21273	0.15607	1561
		Cu	Copper	97.25	7440-50-8	68.95998	50.59240	505924
		Fe	Iron	2.30	7439-89-6	1.63093	1.19653	11965
		Zn	Zinc	0.15	7440-66-6	0.10637	0.07803	780
<b>Subtotal:</b>				<b>100.00</b>		<b>70.91000</b>	<b>52.02304</b>	<b>520230</b>
Adhesive Bottom IC	1.08	Ag	Silver	84.00	7440-22-4	0.91056	0.66803	6680
			Epoxy Resin	16.00	25928-94-3	0.17344	0.12724	1272
<b>Subtotal:</b>				<b>100.00</b>		<b>1.08400</b>	<b>0.79528</b>	<b>7953</b>
IC Bottom	4.55	Si	Silicon	95.00	7440-21-3	4.32250	3.17120	31712
			Polyimide	5.00	58698-66-1	0.22750	0.16691	1669
<b>Subtotal:</b>				<b>100.00</b>		<b>4.55000</b>	<b>3.33810</b>	<b>33381</b>
Adhesive Spacer	0.31	SiO2	Silica Fused	34.00	60676-86-0	0.10676	0.07832	783
			Epoxy Resin	66.00	25928-94-3	0.20724	0.15204	1520
<b>Subtotal:</b>				<b>100.00</b>		<b>0.31400</b>	<b>0.23037</b>	<b>2304</b>
Spacer	2.92	Si	Silicon	100.00	7440-21-3	2.92300	2.14446	21445
<b>Subtotal:</b>				<b>100.00</b>		<b>2.92300</b>	<b>2.14446</b>	<b>21445</b>
Adhesive Top IC	0.31	SiO2	Silica Fused	34.00	60676-86-0	0.10676	0.07832	783
			Epoxy Resin	66.00	25928-94-3	0.20724	0.15204	1520
<b>Subtotal:</b>				<b>100.00</b>		<b>0.31400</b>	<b>0.23037</b>	<b>2304</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.

# Material Declaration Form

Page 2

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



Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC Top	4.55	Si	Silicon	95.00	7440-21-3	4.32250	3.17120	31712
			Polyimide	5.00	58698-66-1	0.22750	0.16691	1669
			<b>Subtotal:</b>	<b>100.00</b>		<b>4.55000</b>	<b>3.33810</b>	<b>33381</b>
Wire	1.11	Au	Gold	99.00	7440-57-5	1.09890	0.80621	8062
			Pd	1.00	7440-05-3	0.01110	0.00814	81
			<b>Subtotal:</b>	<b>100.00</b>		<b>1.11000</b>	<b>0.81435</b>	<b>8144</b>
Moldcompound	48.1	SiO2	Silica Fused	85.00	60676-86-0	40.88500	29.99523	299952
			Carbon Black	0.30	1333-86-4	0.14430	0.10587	1059
			Epoxy Resin	9.00	25928-94-3	4.32900	3.17597	31760
			Phenol Resin	5.70	28064-14-4	2.74170	2.01144	20114
			<b>Subtotal:</b>	<b>100.00</b>		<b>48.10000</b>	<b>35.28851</b>	<b>352885</b>
Plating	2.45	Sn	Tin	100.00	7440-31-5	2.45000	1.79744	17974
			<b>Subtotal:</b>	<b>100.00</b>		<b>2.45000</b>	<b>1.79744</b>	<b>17974</b>
<b>Total:</b>	<b>136.31</b>					<b>136.31</b>	<b>100.00000</b>	<b>1000000</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.