

# Product Document

# 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
AS5247U-HTQT	VHDLF ePTQFP 7x7mm	507940006	32	147.99	PHILIPPINES	YES	YES	YES	PROTOS	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Leadframe	50.15	Ag	Silver	0.30	7440-22-4	0.15045	0.10166	1017
		Cu	Copper	95.90	7440-50-8	48.09385	32.49804	324980
		Mg	Magnesium	0.15	7439-95-4	0.07523	0.05083	508
		Ni	Nickel	3.00	7440-02-0	1.50450	1.01662	10166
		Si	Silicon	0.65	7440-21-3	0.32598	0.22027	2203
<b>Subtotal:</b>				<b>100.00</b>		<b>50.15000</b>	<b>33.88742</b>	<b>338874</b>
Adhesive Bottom IC	0.29	Ag	Silver	70.00	7440-22-4	0.20300	0.13717	1372
			Anhydride	10.00	108-24-7	0.02900	0.01960	196
			Epoxy Resin	20.00	25928-94-3	0.05800	0.03919	392
<b>Subtotal:</b>				<b>100.00</b>		<b>0.29000</b>	<b>0.19596</b>	<b>1960</b>
IC Bottom	15.19	Si	Silicon	95.00	7440-21-3	14.43050	9.75100	97510
			Polyimide	5.00	58698-66-1	0.75950	0.51321	5132
<b>Subtotal:</b>				<b>100.00</b>		<b>15.19000</b>	<b>10.26421</b>	<b>102642</b>
Adhesive Top IC	0.29		Bismaleimide Triazine	30.00	35325-39-4	0.08700	0.05879	588
			Polymeric resin	20.00	68139-70-8	0.05800	0.03919	392
			Poly (tetrafluoroethylene)	50.00	9002-84-0	0.14500	0.09798	980
<b>Subtotal:</b>				<b>100.00</b>		<b>0.29000</b>	<b>0.19596</b>	<b>1960</b>
IC Top	15.19	Si	Silicon	95.00	7440-21-3	14.43050	9.75100	97510
			Polyimide	5.00	58698-66-1	0.75950	0.51321	5132
<b>Subtotal:</b>				<b>100.00</b>		<b>15.19000</b>	<b>10.26421</b>	<b>102642</b>

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Wire	1.4	Au	Gold	99.00	7440-57-5	1.38600	0.93655	9365
		Pd	Palladium	1.00	7440-05-3	0.01400	0.00946	95
		<b>Subtotal:</b>		<b>100.00</b>		<b>1.40000</b>	<b>0.94601</b>	<b>9460</b>
Moldcompound	61.27	SiO2	Silica Fused	83.00	60676-86-0	50.85410	34.36320	343632
			Carbon Black	0.30	1333-86-4	0.18381	0.12420	1242
			Epoxy Phenol Resin	7.70	28064-14-4	4.71779	3.18791	31879
			Epoxy Resin	9.00	25928-94-3	5.51430	3.72613	37261
		<b>Subtotal:</b>		<b>100.00</b>		<b>61.27000</b>	<b>41.40145</b>	<b>414014</b>
Plating	4.21	Sn	Tin	100.00	7440-31-5	4.21000	2.84479	28448
<b>Subtotal:</b>		<b>100.00</b>				<b>4.21000</b>	<b>2.84479</b>	<b>28448</b>
<b>Total:</b>	<b>147.99</b>					<b>147.99</b>	<b>100.00000</b>	<b>1000000</b>

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