

# 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
AS5171A-HSIT	SIP	501220041	3	414.4	Taiwan	YES	YES	YES	FULL	2

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)	
Moldcompound	240.68		Carbon Black	0.30	1333-86-4	0.72205	0.17424	1742	
			Epoxy Resin	9.00	25928-94-3	21.66156	5.22721	52272	
			Phenol Resin	5.70	28064-14-4	13.71899	3.31057	33106	
			Silica (Amorphous) A	78.00	60676-86-0	187.73352	45.30249	453025	
			Silica (Amorphous) B	7.00	7631-86-9	16.84788	4.06561	40656	
<b>Subtotal:</b>				<b>100.00</b>		<b>240.68400</b>	<b>58.08012</b>	<b>580801</b>	
IC	5.93	Si	Silicon	95.00	7440-21-3	5.63065	1.35875	13587	
			Polyimide	5.00	58698-66-1	0.29635	0.07151	715	
<b>Subtotal:</b>				<b>100.00</b>		<b>5.92700</b>	<b>1.43026</b>	<b>14303</b>	
Adhesive	0.6	Ag	Silver	77.00	7440-22-4	0.46046	0.11111	1111	
			BLO (1-10)	Gamma Butyrolactone	1.00	96-48-0	0.00598	0.00144	14
			Epoxy Resin	22.00	25928-94-3	0.13156	0.03175	317	
<b>Subtotal:</b>				<b>100.00</b>		<b>0.59800</b>	<b>0.14431</b>	<b>1443</b>	
Wire	0.17	Au	Gold	99.00	7440-57-5	0.16731	0.04037	404	
			Pd	Palladium	1.00	7440-05-3	0.00169	0.00041	4
<b>Subtotal:</b>				<b>100.00</b>		<b>0.16900</b>	<b>0.04078</b>	<b>408</b>	
Solder Paste	0.13	Sb	Antimony	5.00	7440-36-0	0.00640	0.00154	15	
			Sn	Tin	95.00	7440-31-5	0.12160	0.02934	293
<b>Subtotal:</b>				<b>100.00</b>		<b>0.12800</b>	<b>0.03089</b>	<b>309</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)
SIP Capacitor C1	4.47	Cu	Copper	15.60	7440-50-8	0.69654	0.16808	1681
		Ni	Nickel	4.30	7440-02-0	0.19200	0.04633	463
		Sn	Tin	1.30	7440-31-5	0.05805	0.01401	140
			Barium Titanate	71.50	12047-27-7	3.19248	0.77038	7704
			Terbium Oxide	2.40	12037-01-3	0.10716	0.02586	259
			Ytterby Oxide	3.40	1314-37-0	0.15181	0.03663	366
			Yttrium Oxide	1.50	1314-36-9	0.06698	0.01616	162
			<b>Subtotal:</b>			<b>100.00</b>		<b>4.46500</b>
SIP Capacitor C2	5.44	Cu	Copper	15.60	7440-50-8	0.84786	0.20460	2046
		Ni	Nickel	4.30	7440-02-0	0.23371	0.05640	564
		Sn	Tin	1.30	7440-31-5	0.07066	0.01705	170
			Barium Titanate	71.50	12047-27-7	3.88603	0.93775	9377
			Terbium Oxide	2.40	12037-01-3	0.13044	0.03148	315
			Ytterby Oxide	3.40	1314-37-0	0.18479	0.04459	446
			Yttrium Oxide	1.50	1314-36-9	0.08153	0.01967	197
			<b>Subtotal:</b>			<b>100.00</b>		<b>5.43500</b>
SIP Capacitor C3	1.4	Cu	Copper	15.60	7440-50-8	0.21840	0.05270	527
		Ni	Nickel	4.30	7440-02-0	0.06020	0.01453	145
		Sn	Tin	1.30	7440-31-5	0.01820	0.00439	44
			Barium Titanate	71.50	12047-27-7	1.00100	0.24155	2416
			Terbium Oxide	2.40	12037-01-3	0.03360	0.00811	81
			Ytterby Oxide	3.40	1314-37-0	0.04760	0.01149	115
			Yttrium Oxide	1.50	1314-36-9	0.02100	0.00507	51
			<b>Subtotal:</b>			<b>100.00</b>		<b>1.40000</b>

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Plating	3.86	Sn	Tin	100.00	7440-31-5	3.86200	0.93195	9319
<b>Subtotal:</b>				<b>100.00</b>		<b>3.86200</b>	<b>0.93195</b>	<b>9319</b>
Leadframe	151.73	Ag	Silver	0.01	7440-22-4	0.01517	0.00366	37
		Cu	Copper	99.92	7440-50-8	151.61061	36.58557	365856
		Zr	Zirconium	0.07	7440-67-7	0.10621	0.02563	256
<b>Subtotal:</b>				<b>100.00</b>		<b>151.73200</b>	<b>36.61486</b>	<b>366149</b>
<b>Total:</b>	<b>414.4</b>					<b>414.40</b>	<b>100.00000</b>	<b>1000000</b>

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