

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
AS5171C-HSIT	SIP	501220057	3	414.4	TAIWAN	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
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
		Subtotal:		100.00		151.73200	36.61486	366149
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
		Subtotal:		100.00		0.59800	0.14431	1443
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
		Subtotal:		100.00		5.92700	1.43026	14303
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
		Subtotal:		100.00		0.16900	0.04078	408
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
		Subtotal:		100.00		240.68400	58.08012	580801

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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Plating	3.86	Sn	Tin	100.00	7440-31-5	3.86200	0.93195	9319
Subtotal:				100.00		3.86200	0.93195	9319
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
Subtotal:				100.00		0.12800	0.03089	309
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
		O7Tb4-2	Tetraterbium heptaoxide	2.40	12037-01-3	0.10716	0.02586	259
		Sn	Tin	1.30	7440-31-5	0.05805	0.01401	140
			Barium Titanate	71.50	12047-27-7	3.19248	0.77038	7704
			Ytterby Oxide	3.40	1314-37-0	0.15181	0.03663	366
			Yttrium Oxide	1.50	1314-36-9	0.06698	0.01616	162
Subtotal:				100.00		4.46500	1.07746	10775
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
		O7Tb4-2	Tetraterbium heptaoxide	2.40	12037-01-3	0.13044	0.03148	315
		Sn	Tin	1.30	7440-31-5	0.07066	0.01705	170
			Barium Titanate	71.50	12047-27-7	3.88603	0.93775	9377
			Ytterby Oxide	3.40	1314-37-0	0.18479	0.04459	446
			Yttrium Oxide	1.50	1314-36-9	0.08153	0.01967	197
Subtotal:				100.00		5.43500	1.31153	13115

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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
		O7Tb4-2	Tetraterbium heptaoxide	2.40	12037-01-3	0.03360	0.00811	81
		Sn	Tin	1.30	7440-31-5	0.01820	0.00439	44
			Barium Titanate	71.50	12047-27-7	1.00100	0.24155	2416
			Ytterby Oxide	3.40	1314-37-0	0.04760	0.01149	115
			Yttrium Oxide	1.50	1314-36-9	0.02100	0.00507	51
		Subtotal:		100.00		1.40000	0.33784	3378
Total:	414.4					414.40	100.00000	1000000

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