

# Product Document

Material Declaration Form

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
AS5147P-HTSM	TSSOP 4.4mm HDLF	500430003	14	61.81	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	19.06	Ag	Silver	0.30	7440-22-4	0.05718	0.09251	925
		Cu	Copper	95.90	7440-50-8	18.27854	29.57214	295721
		Mg	Magnesium	0.15	7439-95-4	0.02859	0.04625	463
		Ni	Nickel	3.00	7440-02-0	0.57180	0.92509	9251
		Si	Silicon	0.65	7440-21-3	0.12389	0.20044	2004
		Subtotal:		100.00		19.06000	30.83643	308364
Adhesive	6.08	Ag	Silver	73.00	7440-22-4	4.43986	7.18308	71831
		BLO (1-10)	Gamma Butyrolactone	3.00	96-48-0	0.18246	0.29519	2952
			Epoxy Resin	21.00	25928-94-3	1.27722	2.06636	20664
			Silver Oxide	3.00	1301-96-8	0.18246	0.29519	2952
		Subtotal:		100.00		6.08200	9.83983	98398
IC	14.09	Si	Silicon	95.00	7440-21-3	13.38930	21.66203	216620
			Polyimide	5.00	58698-66-1	0.70470	1.14011	11401
		Subtotal:		100.00		14.09400	22.80214	228021
Wire	0.29	Au	Gold	99.00	7440-57-5	0.28710	0.46449	4645
		Pd	Palladium	1.00	7440-05-3	0.00290	0.00469	47
		Subtotal:		100.00		0.29000	0.46918	4692

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Moldcompound	20.92	SiO2	Silica Fused	85.00	60676-86-0	17.78370	28.77156	287716
			Carbon Black	0.30	1333-86-4	0.06277	0.10155	1015
			Epoxy Resin	9.00	25928-94-3	1.88298	3.04640	30464
			Phenol Resin	5.70	28064-14-4	1.19255	1.92939	19294
			Subtotal:	100.00		20.92200	33.84889	338489
Plating	1.36	Sn	Tin	100.00	7440-31-5	1.36200	2.20353	22035
			Subtotal:	100.00		1.36200	2.20353	22035
Total:	61.81					61.81	100.00000	1000000

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