

Material Declaration Form



Ordering Code	Production Version	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China Rohs	Release Status	Report Version
CSG14K-1E5M1LA	Supplier 1	216 LGA	508020013	216	3,336.45	Japan	NO	YES	YES		1

Production Version: Supplier 1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Wire	4.55	Au	Gold	100.00	7440-57-5	4.55000	0.13637	1364
Subtotal:				100.00		4.55000	0.13637	1364
Adhesive (Glass)	5.3	10H13CIO3	Phenol/ formaldehyde/ epichloronhydrin copolymer	55.00	9003-36-5	2.91500	0.08737	874
			Additive agents	20.00	14807-96-6	1.06000	0.03177	318
			Photoinitiators/Curing agents	5.00	125054-47-9	0.26500	0.00794	79
			UV curable monomers	20.00	2386-87-0	1.06000	0.03177	318
Subtotal:				100.00		5.30000	0.15885	1589
IC	459.1	Si	Silicon	100.00	7440-21-3	459.10000	13.76013	137601
Subtotal:				100.00		459.10000	13.76013	137601
Glass LID	537.4		Inorganic Glass	100.00	65997-17-3	537.40000	16.10694	161069
Subtotal:				100.00		537.40000	16.10694	161069

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



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Ceramic Package	2,319.1	Al2O3	Aluminum Oxide	82.81	1344-28-1	1920.36153	57.55703	575570
		Au	Gold	0.24	7440-57-5	5.65622	0.16953	1695
		B	Boron	0.00	7440-42-8	0.03653	0.00109	11
		Bi	Bismuth	0.00	7440-69-9	0.00209	0.00006	1
		CaO	Calcium Oxide	0.55	1305-78-8	12.73167	0.38159	3816
		Cr2O3	Chromium Oxide	3.57	1308-38-9	82.75590	2.48036	24804
		MgO	Magnesium Oxide	0.46	1309-48-4	10.60974	0.31799	3180
		Mo	Molybdenum	0.66	7439-98-7	15.31798	0.45911	4591
		Ni	Nickel	0.42	7440-02-0	9.69753	0.29065	2907
		P	Phosphorus	0.02	7723-14-0	0.41732	0.01251	125
		Pd	Palladium	0.01	7440-05-3	0.27961	0.00838	84
		SiO2	Silicon Dioxide	3.20	7631-86-9	74.26813	2.22596	22260
		Tl	Thallium	0.00	7440-28-0	0.00056	0.00002	0
		W	Tungsten	7.15	7440-33-7	165.74573	4.96773	49677
			Titanium Dioxide	0.91	13463-67-7	21.21946	0.63599	6360
		Subtotal:		100.00		2319.10000	69.50801	695080

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Adhesive	11	C15H16O2	Epoxy Resin	50.00	25068-38-6	5.50000	0.16485	1648
		SiO2	Silica	49.50	7631-86-9	5.44500	0.16320	1632
			Carbon Black	0.50	1333-86-4	0.05500	0.00165	16
		Subtotal:		100.00		11.00000	0.32969	3297
Total:	3,336.45					3,336.45	100.00000	1000000

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