

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
CSG8K-1E5M1LA	Supplier 1	LGA	508250003	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)
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				

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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
Wire	4.55	Au	Gold	100.00	7440-57-5	4.55000	0.13637	1364	
		Subtotal:			100.00		4.55000	0.13637	1364
Total:	3,336.45					3,336.45	100.00000	1000000	

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