



100% Material Declaration Data Sheet for XQVP1552-VSQA2785

PK1217(v1.0) April 17, 2025

AverSilvere Weight : 28.3435 g

Component	Substance Description	CAS # or Description	% of Component	Use in product	Component weight / substance weight (in grams)	Component % of total
Silicon die					0.795261	2.806%
	Silicon	7440-21-3	100.00	basis	0.795261	
Micro-bump					0.052614	0.186%
	Copper	7440-50-8	54.80	metal	0.028832	
	Nickelcckel	7440-02-0	22.69	metal	0.011936	
	Tin	7440-31-5	21.87	metal	0.011508	
	Silver	7440-22-4	0.64	metal	0.000338	
Micro-bump underfill					0.026577	0.094%
	Amorphous silica	trade secret	46.87	Filler	0.012456	
	Amine compound	trade secret	20.84	Glue	0.005538	
	Epoxy resin compound-A	trade secret	15.63	Glue	0.004153	
	Epoxy resin compound-B	trade secret	5.23	Glue	0.001389	
	Epoxy resin compound-C	trade secret	11.44	Glue	0.003041	
Molding compound					0.069882	0.247%
	Silica filler (SiO2)	trade secret	86.02	Filler	0.060114	
	Epoxy resin	trade secret	8.60	Glue	0.006011	
	Hardener resin	trade secret	5.38	Glue	0.003757	
Interposer die					0.479190	1.691%
	Silicon	7440-21-3	100.00	basis	0.479190	
C4 Bump					0.012146	0.043%
	Copper	7440-50-8	70.73	metal	0.008591	
	Tin	7440-31-5	28.53	metal	0.003465	
	Silver	7440-22-4	0.74	metal	0.000090	
Solder Paste					0.028644	0.101%
	Tin	7440-31-5	96.50	Main material	0.027642	
	Silver	7440-22-4	3.00	Main material	0.000859	
	Copper	7440-50-8	0.50	Main material	0.000143	
C4 Underfill					0.102223	0.361%
	Bisphenol F/ epichlorohydrin copolymer	9003-36-5	24.00	basis	0.024534	
	Phenolic resin	trade secret	19.00	basis	0.019422	
	Bisphenol A type liquid epoxy resin	25068-38-6	4.00	basis	0.004089	
	Amine type accelerator	trade secret	5.00	basis	0.005111	
	Silicon dioxide	60676-86-0	44.10	basis	0.045080	
	Carbon black	1333-86-4	0.90	basis	0.000920	
	Additives	trade secret	3.00	Additive	0.003067	
Stiffener Ring					11.520516	40.646%
	Nickel	7440-02-0	10.50	Stiffener ring	1.209654	
	Manganese	7439-96-5	2.00	Stiffener ring	0.230410	
	Chromium	7440-47-3	20.00	Stiffener ring	2.304103	
	Iron	7439-89-6	66.34	Stiffener ring	7.642710	
	Other	--	1.16	Stiffener ring	0.133638	
Adhesive					0.093522	0.330%
	Silicone	Confidential	80.00	Main material	0.074818	
	Others	Confidential	20.00	Main material	0.018704	
Solder Ball					1.467370	5.177%
	Tin	7440-31-5	63.00	Main material	1.423128	
	Lead	7439-92-1	37.00	Main material	0.044242	
Capacitor 1					0.083851	0.296%
	BaTiO3 type	12047-27-7	51.10	Ceramic	0.042848	
	Copper	7440-50-8	27.00	Inner electrode	0.022640	
	Nickel	7440-02-0	16.90	Out electrode	0.014171	
	Nickel	7440-02-0	2.00	Plating1	0.001677	
	Tin	7440-31-5	3.00	Plating2	0.002516	
Capacitor 2					0.072753	0.257%
	BaTiO3 type	12047-27-7	51.50	Ceramic	0.037468	
	Copper	7440-50-8	26.50	Inner electrode	0.019280	
	Nickel	7440-02-0	16.00	Out electrode	0.011641	
	Nickel	7440-02-0	2.90	Plating1	0.002110	
	Tin	7440-31-5	3.10	Plating2	0.002255	
Capacitor 3					0.013960	0.049%
	BaTiO3 type	12047-27-7	49.20	Ceramic	0.006868	
	Copper	7440-50-8	28.50	Inner electrode	0.003979	
	Nickel	7440-02-0	17.30	Out electrode	0.002415	
	Nickel	7440-02-0	2.00	Plating1	0.000279	
	Tin	7440-31-5	3.00	Plating2	0.000419	
Substrate					13.524942	47.718%
	Copper	7440-50-8	38.44	Plating	5.198625	
	Tin	7440-31-5	0.23	Plating	0.031132	
	Silver	7440-22-4	0.01	Plating	0.000724	
	Via Plugging	trade secret	44.72		6.050000	
	Core	trade secret	0.83	Core	0.111734	
	ABF	trade secret	14.79	Build Up	2.000000	
	Solder Mask	trade secret	0.98	Solder Mask	0.132727	

Revision History

Date	Version	Description of Revisions
4/17/2025	1.0	Initial AMD Release.

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