

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1609AISW#PBF

(Engineering Calculation)

SOC WIDE

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TOTAL MASS (g): 0.54377

COMPONENT MATERIAL	VENDOR/INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL Pkg.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.000123	1000000	11260.20125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.153163	975000	281668.875		
		Iron (Fe)	7439-89-6	0.003770	24000	6933.08203125		
		Phosphorus (P)	7723-14-0	0.000047	300	86.4336471558		
		Zinc (Zn)	7440-66-6	0.000110	700	202.291519165		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-95-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.157090	1000000	288899.65625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005974	1000000	10985.6748047		
		External Plating Total:				0.005974	1000000	10985.6748047
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001257	1000000	2311.64030886		
		Internal Plating Total:				0.001257	1000000	2311.64030886
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001502	750000	2762.19873047		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000000	0	0		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.005501	250000	921.345825195		
		Die Attach Total:				0.002203	1000000	3683.54443359
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.038211	103000	70274.234375
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.332045	895000	610635.25		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000742	2000	1364.54821777		
Encapsulation Total:						0.371000	1000000	682274.125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000023	1000000	594.001464844		

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