

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1159cg-3.3#pbf

(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.147169

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	0.002017	1000000	13705.3642578		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.058880	975000	400085.21875		
		Iron (Fe)	7439-89-6	0.001449	24000	9845.84667969		
		Phosphorus (P)	7723-14-0	0.000018	300	122.308654785		
		Zinc (Zn)	7440-66-6	0.000042	700	285.386871338		
		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:				0.060389	1000000	410338.75		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002831	1000000	19233.9394531		
		External Plating Total:				0.002831	1000000	19233.9394531
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000483	1000000	3281.94897461		
Internal Plating Total:				0.000483	1000000	3281.94897461		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000691	750000	4695.29345703		
		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)		0.000230	250000	1562.83288574		
Die Attach Total:				0.000921	1000000	6258.12646484		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.012027	150000	81722.5625		
		Bromine (Br)	40039-93-8	0.000802	10000	5449.53027344		
		Silica (SiO2)	60676-86-0	0.064946	810000	441303.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.002405	30000	16341.7939453		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.080180	1000000	544817.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000348	1000000	2364.6340332		
					TOTAL MASS (g) :	0.147169		