

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1609CG#PBF

(Engineering Calculation)

SSOP

(printed on: 2014-01-19 23:17:11)

TOTAL MASS (g): 0.234618

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	0.006123	1000000	26097.7400409
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.123431	975000	521831.40625
		Iron (Fe)	7439-89-6	0.003014	24000	12846.4179688
		Phosphorus (P)	7723-14-0	0.000038	300	161.965454102
		Zinc (Zn)	7440-66-6	0.000088	700	375.077808059
		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:		0.125871	1000000	535214.8125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.003749	1000000	15978.8798828
		External Plating Total:		0.003749	1000000	15978.8798828
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001065	1000000	4283.56005859
		Internal Plating Total:		0.001065	1000000	4283.56005859
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001502	750000	6401.89784922
		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)		0.000501	250000	2135.38647461
		Die Attach Total:		0.002063	1000000	8537.28417969
Encapsulation	MULTIAROMATIC RESIN BcSB FREE	Resin (EP)		0.009848	103000	41974.6210938
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.085571	895000	364724.875
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000191	2000	814.089477539
		Encapsulation Total:		0.095610	1000000	407513.625
Band Wire Estimated	AFW/TANAKA/ Kti	Gold (Au)	7440-57-5	0.000557	1000000	2374.07250977

TOTAL MASS (g): 0.234618