

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SSOP

LTC4229IG#TRPBF

(printed on: 2014-01-20 03:05:05)

TOTAL MASS (g): 0.162424

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	0.004211	1000000	26541.7089844		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.075163	975000	462759.09375		
		Iron (Fe)	7439-89-6	0.001850	24000	11389.9707031		
		Phosphorus (P)	7723-14-0	0.000023	300	141.605056763		
		Zinc (Zn)	7440-66-6	0.000054	700	332.463989258		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-98-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.077090	1000000	474623.1875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003400	1000000	20930.450781		
		External Plating Total:				0.003400	1000000	20930.450781
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000617	1000000	3798.70898438		
		Internal Plating Total:				0.000617	1000000	3798.70898438
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001162	750000	7154.13330078		
		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)		0.000387	250000	2382.65893555		
		Die Attach Total:				0.001549	1000000	9536.79199219
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.007726	103000	47566.9804688
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.067134	895000	413326.65625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000150	2000	923.511169434		
Encapsulation Total:						0.075010	1000000	461817.15625
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000447	1000000	2782.06298828		

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