

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4215IGN#TRPBF

(Engineering Calculation)

SSOP

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TOTAL MASS (g): 0.08371

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	0.004480	1000000	53518.8546875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	357579.40625	
		Iron (Fe)	7439-89-6	0.000737	24000	8884.19726562	
		Phosphorus (P)	7723-14-0	0.000009	300	107.513946533	
		Zinc (Zn)	7440-66-6	0.000021	700	258.865844727	
		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:			0.030700	1000000	366742
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.002272	1000000	27142.2539062	
External Plating Total:					0.002272	1000000	27142.2539062
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000246	1000000	2938.71459961	
Internal Plating Total:					0.000246	1000000	2938.71459961
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001202	750000	14359.0839844	
		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)		0.000401	250000	4790.34326172	
		Die Attach Total:			0.001603	1000000	19149.4257812
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006623	150000
Bromine (Br)	40093-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.036203	820000	432480.8125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.001104	25000	13188.3769531	
Carbon Black (C)	1333-86-4			0.000221	5000	2640.06445312	
Encapsulation Total:					0.044151	1000000	527427.5625
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000258	1000000	3082.86616211	

TOTAL MASS (g):

0.083710