

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4227IGN-1#TRPBF

(Engineering Calculation)

SSOP

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TOTAL MASS (g): 0.084803

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	0.00292	1000000	61342.1171875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	352970.6875		
		Iron (Fe)	7439-89-6	0.000737	24000	8690.72163281		
		Phosphorus (P)	7723-14-0	0.000009	300	106.128227234		
		Zinc (Zn)	7440-66-6	0.000021	700	247.612537842		
		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	362015.1875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.002272	1000000	26792.4277344		
External Plating Total:						0.002272	1000000	26792.4277344
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000246	1000000	2960.83837891		
Internal Plating Total:						0.000246	1000000	2960.83837891
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001346	750000	15872.0664062		
		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)		0.000449	250000	5294.61962891		
		Die Attach Total:				0.001795	1000000	21166.6855469
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006623	150000	78098.578125
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.036203	820000	426906.71875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001104	25000	13018.3955078		
Carbon Black (C)	1333-86-4			0.000221	5000	2606.03759766		
Encapsulation Total:						0.044151	1000000	526629.71875
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000437	1000000	5153.1152438		

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