

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2251UH#TRPBF

(Engineering Calculation)

QFN 5mm X 5mm Exp. Pad

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TOTAL MASS (g): 0.065175

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	0.002592	1000000	28388.7929688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	435471.90625		
		Iron (Fe)	7439-89-6	0.000699	24000	10724.9267578		
		Phosphorus (P)	7723-14-0	0.000009	300	138.089187622		
		Zinc (Zn)	7440-66-6	0.000020	700	306.864837646		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-99-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.029110	1000000	446641.78125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001398	1000000	21454.0839844		
External Plating Total:						0.001398	1000000	21454.0839844
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000635	1000000	9742.95898438		
Internal Plating Total:						0.000635	1000000	9742.95898438
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001054	750000	16171.7773438		
		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)		0.000151	250000	5385.47802734		
		Die Attach Total:				0.001405	1000000	21587.2539862
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.003888	130000	59654.5273438
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.025723	860000	394674.21875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000299	10000	4587.62939453		
Encapsulation Total:						0.029910	1000000	458916.375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000215	1000000	3298.796875		

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