

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2414IGN#TRPBF

(Engineering Calculation)

SSOP

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TOTAL MASS (g): 0.174981

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	0.006700	1000000	38209.8829125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.063999	975000	365748.40625		
		Iron (Fe)	7439-89-6	0.001575	24000	9000.98046875		
		Phosphorus (P)	7723-14-0	0.000020	300	114.298164368		
		Zinc (Zn)	7440-66-6	0.000046	700	262.885803223		
		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:				0.065640	1000000	375126.59375
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.003749	1000000	21424.8007812		
External Plating Total:						0.003749	1000000	21424.8007812
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000525	1000000	3000.32666016		
Internal Plating Total:						0.000525	1000000	3000.32666016
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001650	750000	9429.59663281		
		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)		0.000550	250000	3143.19946289		
		Die Attach Total:				0.002200	1000000	12572.7978516
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.009848	103000	56280.4101562
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.085571	895000	489030.40625		
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	1091.54748535		
Encapsulation Total:						0.095610	1000000	546402.375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000557	1000000	3183.20385742		

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