

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2983hlx#pbf

(Engineering Calculation)

LQFP 7mm X 7mm

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TOTAL MASS (g) : 0.139526

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	0.000851	1000000	6099.22753906		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.048877	975000	350307.78125		
		Iron (Fe)	7439-89-6	0.001203	24000	8622.05664062		
		Phosphorus (P)	7723-14-0	0.000015	300	107.50693512		
		Zinc (Zn)	7440-66-6	0.000035	700	250.849517822		
		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:				0.050130	1000000	359288.1875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005224	1000000	37440.3007812		
		External Plating Total:				0.005224	1000000	37440.3007812
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.005200	1000000	37269.0742188		
Internal Plating Total:				0.005200	1000000	37269.0742188		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000409	750000	2931.35595703		
		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)		0.000136	250000	974.729614258		
Die Attach Total:				0.000545	1000000	3906.08569336		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007929	103000	56828.171875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.068897	895000	493793.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000154	2000	1103.73791504		
		Encapsulation Total:				0.076980	1000000	551725.625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000596	1000000	4271.609375		
					TOTAL MASS (g) :	0.139526		