

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t8602elxe#pbf

(Engineering Calculation)

eLQFP 7mm X 7mm Exp. Pad

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TOTAL MASS (g) : 0.140865

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	0.005224	1000000	37085.1875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.048877	975000	346977.90625		
		Iron (Fe)	7439-89-6	0.001203	24000	8540.09863281		
		Phosphorus (P)	7723-14-0	0.000015	300	106.485023499		
		Zinc (Zn)	7440-66-6	0.000035	700	248.465072632		
		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	355872.9375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005224	1000000	37084.40625		
		External Plating Total:				0.005224	1000000	37084.40625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000520	1000000	3691.48071289		
Internal Plating Total:				0.000520	1000000	3691.48071289		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001334	750000	9470.06835938		
		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)		0.000445	250000	3159.05566406		
Die Attach Total:				0.001779	1000000	12629.1240234		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.007929	103000	56287.984375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.068897	895000	489099.90625		
		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	1093.24621582		
		Encapsulation Total:				0.076980	1000000	546481.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.001008	1000000	7155.79394531		
					TOTAL MASS (g) :	0.140865		