

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g) : 0.040163

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	0.001409	1000000	35082.46875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	397410.4375		
		Iron (Fe)	7439-89-6	0.000393	24000	9785.24511719		
		Phosphorus (P)	7723-14-0	0.000005	300	124.49420929		
		Zinc (Zn)	7440-66-6	0.000011	700	273.887268066		
		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:				0.016370	1000000	407594.09375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000773	1000000	19234.5351562		
		External Plating Total:				0.000773	1000000	19234.5351562
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000362	1000000	9013.38085938		
Internal Plating Total:				0.000362	1000000	9013.38085938		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000726	750000	18076.5605469		
		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)		0.000242	250000	6025.52001953		
Die Attach Total:				0.000968	1000000	24102.0800781		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002616	130000	65135.375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.017303	860000	430824.65625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000201	10000	5004.66748047		
		Encapsulation Total:				0.020120	1000000	500964.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000161	1000000	4008.71411133		
					TOTAL MASS (g) :	0.040163		