

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g) : 0.040883

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	0.001971	1000000	48211.3320312		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	390411.5		
		Iron (Fe)	7439-89-6	0.000393	24000	9612.91308594		
		Phosphorus (P)	7723-14-0	0.000005	300	122.301704407		
		Zinc (Zn)	7440-66-6	0.000011	700	269.063751221		
		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	400415.78125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000773	1000000	18895.7890625		
		External Plating Total:				0.000773	1000000	18895.7890625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000362	1000000	8854.64355469		
Internal Plating Total:				0.000362	1000000	8854.64355469		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000894	750000	21867.5429688		
		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)		0.000298	250000	7289.18164062		
Die Attach Total:				0.001192	1000000	29156.7265625		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002616	130000	63988.2460938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.017303	860000	423237.25		
		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	4916.52880859		
		Encapsulation Total:				0.020120	1000000	492142.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000095	1000000	2323.73242188		
					TOTAL MASS (g) :	0.040883		