

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 4mm X 6mm Exp. Pad

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TOTAL MASS (g) : 0.059209

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	0.003559	1000000	60109.4609375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	EFTEC-64T	Copper (Cu)	7440-50-8	0.023576	975000	398185.0625		
		Iron (Fe)	7439-89-6	0.000580	24000	9795.86621094		
		Phosphorus (P)	7723-14-0	0.000007	300	118.225975037		
		Zinc (Zn)	7440-66-6	0.000017	700	287.12020874		
		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:				0.024180	1000000	408386.28125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000273	1000000	4604.89453125		
		External Plating Total:				0.000273	1000000	4604.89453125
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000647	1000000	10927.4570312		
Internal Plating Total:				0.000647	1000000	10927.4570312		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000015	50000	253.341369629		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000090	300000	1520.04821777		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000196	650000	3310.3269043		
Die Attach Total:				0.000301	1000000	5083.71630859		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003892	130000	65733.640625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025748	860000	434868.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000299	10000	5049.93798828		
		Encapsulation Total:				0.029939	1000000	505652.5
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000310	1000000	5235.72119141		
					TOTAL MASS (g) :	0.059209		