

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 4mm X 5mm Exp. Pad

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TOTAL MASS (g) : 0.051851

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	0.003416	1000000	65880.8203125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.019997	975000	385661.25		
		Iron (Fe)	7439-89-6	0.000492	24000	9488.68945312		
		Phosphorus (P)	7723-14-0	0.000006	300	115.71572876		
		Zinc (Zn)	7440-66-6	0.000014	700	270.003356934		
		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:				0.020509	1000000	395535.65625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000227	1000000	4381.92285156		
		External Plating Total:				0.000227	1000000	4381.92285156
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000735	1000000	14175.1767578		
Internal Plating Total:				0.000735	1000000	14175.1767578		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001330	750000	25650.3203125		
		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)		0.000443	250000	8543.67773438		
Die Attach Total:				0.001773	1000000	34193.9960938		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.002745	110000	52939.9453125		
		Bromine (Br)	40039-93-8	0.000250	10000	4821.48925781		
		Silica (SiO2)	60676-86-0	0.021208	850000	409016.53125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000749	30000	14445.1796875		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.024952	1000000	481223.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000239	1000000	4609.34326172		
					TOTAL MASS (g) :	0.051851		