

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 1.203023

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	0.004106	1000000	3413.06762695		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.345150	975000	286902.15625		
		Iron (Fe)	7439-89-6	0.008496	24000	7062.20751953		
		Phosphorus (P)	7723-14-0	0.000106	300	88.1113433838		
		Zinc (Zn)	7440-66-6	0.000248	700	206.147293091		
		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:				0.354000	1000000	294258.625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.027934	1000000	23220.0625		
		External Plating Total:				0.027934	1000000	23220.0625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002832	1000000	2354.06884766		
Internal Plating Total:				0.002832	1000000	2354.06884766		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001132	750000	940.962646484		
		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)		0.000377	250000	313.37713623		
Die Attach Total:				0.001509	1000000	1254.33972168		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.194880	240000	161991.859375		
		Bromine (Br)	40039-93-8	0.008120	10000	6749.66162109		
		Silica (SiO2)	60676-86-0	0.584640	720000	485975.65625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.024360	30000	20248.9824219		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.812000	1000000	674966.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000642	1000000	533.655517578		
					TOTAL MASS (g) :	1.203023		