

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 1.36578

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	0.008350	1000000	6113.72460938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.386100	975000	282695.71875		
		Iron (Fe)	7439-89-6	0.009504	24000	6958.66357422		
		Phosphorus (P)	7723-14-0	0.000119	300	87.1297225952		
		Zinc (Zn)	7440-66-6	0.000277	700	202.814590454		
		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:				0.396000	1000000	289944.3125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.031039	1000000	22725.8535156		
		External Plating Total:				0.031039	1000000	22725.8535156
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.003168	1000000	2319.55444336		
Internal Plating Total:				0.003168	1000000	2319.55444336		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001882	750000	1377.96765137		
		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)		0.000627	250000	459.078491211		
Die Attach Total:				0.002509	1000000	1837.04614258		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.124740	135000	91332.4609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.794640	860000	581821.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.004620	5000	3382.68359375		
		Encapsulation Total:				0.924000	1000000	676536.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000714	1000000	522.778381348		
					TOTAL MASS (g) :	1.36578		