

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 1.58642

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	0.006187	1000000	3899.97607422		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.458357	975000	288925.375		
		Iron (Fe)	7439-89-6	0.011283	24000	7112.24023438		
		Phosphorus (P)	7723-14-0	0.000141	300	88.8793640137		
		Zinc (Zn)	7440-66-6	0.000329	700	207.385192871		
		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:				0.470110	1000000	296333.90625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.037246	1000000	23478.0292969		
		External Plating Total:				0.037246	1000000	23478.0292969
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.003761	1000000	2370.74682617		
Internal Plating Total:				0.003761	1000000	2370.74682617		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001544	750000	973.260620117		
		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)		0.000515	250000	324.630310059		
Die Attach Total:				0.002059	1000000	1297.89086914		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.143937	135000	90730.7109375		
		Bromine (Br)	40039-93-8	0.007463	7000	4704.30273438		
		Silica (SiO2)	60676-86-0	0.895608	840000	564546.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.013861	13000	8737.28320312		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.005331	5000	3360.39648438		
		Encapsulation Total:				1.066200	1000000	672079.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000857	1000000	540.210021973		
					TOTAL MASS (g) :	1.58642		