

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 1.021686

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	0.003860	1000000	3778.0690918		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.313072	975000	306426.8125		
		Iron (Fe)	7439-89-6	0.007706	24000	7542.43505859		
		Phosphorus (P)	7723-14-0	0.000096	300	93.9623413086		
		Zinc (Zn)	7440-66-6	0.000225	700	220.224212646		
		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:				0.321099	1000000	314283.46875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.024547	1000000	24025.9589844		
		External Plating Total:				0.024547	1000000	24025.9589844
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002569	1000000	2514.47119141		
Internal Plating Total:				0.002569	1000000	2514.47119141		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001080	750000	1057.07629395		
		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)		0.000360	250000	352.358764648		
Die Attach Total:				0.001440	1000000	1409.43505859		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.160224	240000	156823.140625		
		Bromine (Br)	40039-93-8	0.006676	10000	6534.29736328		
		Silica (SiO2)	60676-86-0	0.480672	720000	470469.40625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.020028	30000	19602.8925781		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.667600	1000000	653429.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000571	1000000	558.880187988		
					TOTAL MASS (g) :	1.021686		