

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

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TOTAL MASS (g) : 0.158157

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	0.005035	1000000	31835.5117188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.051070	975000	322907.59375		
		Iron (Fe)	7439-89-6	0.001257	24000	7947.81347656		
		Phosphorus (P)	7723-14-0	0.000016	300	101.165481567		
		Zinc (Zn)	7440-66-6	0.000037	700	233.94519043		
		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:				0.052380	1000000	331190.5		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002954	1000000	18675.8066406		
		External Plating Total:				0.002954	1000000	18675.8066406
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000419	1000000	2649.27124023		
Internal Plating Total:				0.000419	1000000	2649.27124023		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001372	750000	8674.94042969		
		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)		0.000457	250000	2889.5390625		
Die Attach Total:				0.001829	1000000	11564.4794922		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.012389	130000	78333.6953125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.079099	830000	500130.53125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.003336	35000	21093.0039062		
		Carbon Black (C)	1333-86-4	0.000477	5000	3015.99584961		
		Encapsulation Total:				0.095301	1000000	602573.25
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000239	1000000	1511.15942383		
					TOTAL MASS (g) :	0.158157		