

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

(printed on: 2020-07-11 16:21:24)

TOTAL MASS (g) : 0.986223

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	0.002887	1000000	2927.33056641		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.284310	975000	288281.75		
		Iron (Fe)	7439-89-6	0.006998	24000	7095.75976562		
		Phosphorus (P)	7723-14-0	0.000087	300	88.2153625488		
		Zinc (Zn)	7440-66-6	0.000204	700	206.84979248		
		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:				0.291599	1000000	295672.53125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.021727	1000000	22030.2792969		
		External Plating Total:				0.021727	1000000	22030.2792969
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002333	1000000	2365.59130859		
Internal Plating Total:				0.002333	1000000	2365.59130859		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000883	750000	895.335144043		
		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)		0.000294	250000	298.107086182		
Die Attach Total:				0.001177	1000000	1193.44226074		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.159840	240000	162072.90625		
		Bromine (Br)	40039-93-8	0.006660	10000	6753.03759766		
		Silica (SiO2)	60676-86-0	0.479520	720000	486218.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.019980	30000	20259.1132812		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.666000	1000000	675303.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000500	1000000	506.984832764		
					TOTAL MASS (g) :	0.986223		