

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.079953

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	0.001460	1000000	18260.7109375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000061	1000000	762.947509766		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	374382.09375		
		Iron (Fe)	7439-89-6	0.000737	24000	9217.90722656		
		Phosphorus (P)	7723-14-0	0.000009	300	112.56603241		
		Zinc (Zn)	7440-66-6	0.000021	700	262.654052734		
		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:				0.030700	1000000	383975.25		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002272	1000000	28417.671875		
		External Plating Total:				0.002272	1000000	28417.671875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000246	1000000	3076.8046875		
Internal Plating Total:				0.000246	1000000	3076.8046875		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000558	750000	6979.09375		
		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)		0.000186	250000	2326.36474609		
Die Attach Total:				0.000744	1000000	9305.45898438		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006605	150000	82610.9609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036107	820000	451602.40625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001101	25000	13770.5771484		
		Carbon Black (C)	1333-86-4	0.000220	5000	2751.61401367		
		Encapsulation Total:				0.044033	1000000	550735.5625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000437	1000000	5465.70654297		
					TOTAL MASS (g) :	0.079953		