

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.143898

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	0.002916	1000000	20264.4121094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.058949	975000	409659.375		
		Iron (Fe)	7439-89-6	0.001451	24000	10083.5595703		
		Phosphorus (P)	7723-14-0	0.000018	300	125.08895874		
		Zinc (Zn)	7440-66-6	0.000042	700	291.874237061		
		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:				0.060460	1000000	420159.90625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003400	1000000	23625.1328125		
		External Plating Total:				0.003400	1000000	23625.1328125
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000484	1000000	3363.50292969		
Internal Plating Total:				0.000484	1000000	3363.50292969		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000886	750000	6157.15673828		
		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)		0.000295	250000	2050.0690918		
Die Attach Total:				0.001181	1000000	8207.2265625		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb Free	Resin (EP)		0.007726	103000	53690.9609375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067134	895000	466540.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000150	2000	1042.40808105		
		Encapsulation Total:				0.075010	1000000	521273.5
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000447	1000000	3106.37573242		
					TOTAL MASS (g) :	0.143898		