

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.247922

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	0.003431	1000000	13839.0097656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000143	1000000	576.793457031		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.138021	975000	556710.625		
		Iron (Fe)	7439-89-6	0.003397	24000	13701.8701172		
		Phosphorus (P)	7723-14-0	0.000042	300	169.407867432		
		Zinc (Zn)	7440-66-6	0.000099	700	399.31854248		
		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:				0.141559	1000000	570981.1875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.004771	1000000	19245.4121094		
		External Plating Total:				0.004771	1000000	19245.4121094
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001132	1000000	4565.9453125		
Internal Plating Total:				0.001132	1000000	4565.9453125		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000993	750000	4005.28588867		
		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)		0.000331	250000	1335.09533691		
Die Attach Total:				0.001324	1000000	5340.38134766		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.009788	103000	39480.1015625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.085047	895000	343038.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000190	2000	766.369018555		
		Encapsulation Total:				0.095025	1000000	383285.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000537	1000000	2166.00073242		
					TOTAL MASS (g) :	0.247922		