

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g) : 0.025762

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	0.000826	1000000	32062.6972656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	404975.90625		
		Iron (Fe)	7439-89-6	0.000257	24000	9975.92382812		
		Phosphorus (P)	7723-14-0	0.000003	300	116.4504776		
		Zinc (Zn)	7440-66-6	0.000007	700	271.717773438		
		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:				0.010700	1000000	415340.03125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	27560.9140625		
		External Plating Total:				0.000710	1000000	27560.9140625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3338.24682617		
Internal Plating Total:				0.000086	1000000	3338.24682617		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000396	750000	15371.4609375		
		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)		0.000132	250000	5123.82080078		
Die Attach Total:				0.000528	1000000	20495.2832031		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	64397.1132812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010591	830000	411109		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000447	35000	17351.1210938		
		Carbon Black (C)	1333-86-4	0.000064	5000	2484.27661133		
		Encapsulation Total:				0.012761	1000000	495341.46875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000151	1000000	5861.34033203		
					TOTAL MASS (g) :	0.025762		