

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TSSOP

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TOTAL MASS (g) : 0.071112

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	0.002169	1000000	30501.0371094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024098	962000	338872.28125		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.000751	30000	10560.7558594		
		Silicon (Si)	7440-21-3	0.000163	1500	534.365783691		
		Magnesium (Mg)	7439-95-4	0.000038	1500	534.365783691		
		Tin (Sn)	7440-31-5	0.000000	0	0		
Lead Frame Total:				0.025050	1000000	352259.53125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001770	1000000	24894.8222656		
		External Plating Total:				0.001770	1000000	24894.8222656
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000683	1000000	9604.5234375		
		Internal Plating Total:				0.000683	1000000	9604.5234375
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000743	750000	10448.2578125		
		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)		0.000248	250000	3487.43994141		
Die Attach Total:				0.000991	1000000	13935.6972656		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.005414	135000	76133.0625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.034486	860000	484951.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000201	5000	2826.51391602		
		Encapsulation Total:				0.040101	1000000	563910.625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000348	1000000	4893.66552734		
					TOTAL MASS (g) :	0.071112		