

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.131595

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	0.004729	1000000	35936.1132812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.040238	975000	305772.34375		
		Iron (Fe)	7439-89-6	0.000990	24000	7523.10205078		
		Phosphorus (P)	7723-14-0	0.000012	300	91.189125061		
		Zinc (Zn)	7440-66-6	0.000029	700	220.373718262		
		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:				0.041269	1000000	313607		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002831	1000000	21510.2460938		
		External Plating Total:				0.002831	1000000	21510.2460938
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000330	1000000	2507.70117188		
Internal Plating Total:				0.000330	1000000	2507.70117188		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001251	750000	9506.46582031		
		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)		0.000417	250000	3168.82202148		
Die Attach Total:				0.001668	1000000	12675.2880859		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb Free	Resin (EP)		0.008259	103000	62760.9101562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.071761	895000	545318.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000160	2000	1215.8548584		
		Encapsulation Total:				0.080180	1000000	609295.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000588	1000000	4468.26708984		
					TOTAL MASS (g) :	0.131595		