

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc1347csw#trpbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.751152

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	0.006193	1000000	8244.66503906		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.184353	975000	245426.90625		
		Iron (Fe)	7439-89-6	0.004538	24000	6041.38427734		
		Phosphorus (P)	7723-14-0	0.000057	300	75.8834152222		
		Zinc (Zn)	7440-66-6	0.000132	700	175.730010986		
		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:				0.189080	1000000	251719.921875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11128.7148438		
		External Plating Total:				0.008359	1000000	11128.7148438
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2014.23864746		
Internal Plating Total:				0.001513	1000000	2014.23864746		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001548	750000	2060.83374023		
		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)		0.000516	250000	686.944519043		
Die Attach Total:				0.002064	1000000	2747.77807617		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.081459	150000	108445.382812		
		Bromine (Br)	40039-93-8	0.005431	10000	7230.22460938		
		Silica (SiO2)	60676-86-0	0.439879	810000	585605.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.016292	30000	21689.3417969		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.543061	1000000	722970.5625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1174.19592285		
					TOTAL MASS (g) :	0.751152		