

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1641is8#pbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 20:14:12)

TOTAL MASS (g) : 0.076769

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	0.004766	1000000	62082.46875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000198	1000000	2579.17089844		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	308106.71875		
		Iron (Fe)	7439-89-6	0.000582	24000	7581.20019531		
		Phosphorus (P)	7723-14-0	0.000007	300	91.1828155518		
		Zinc (Zn)	7440-66-6	0.000017	700	221.443969727		
		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:				0.024259	1000000	316000.5625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19237.6445312		
		External Plating Total:				0.001477	1000000	19237.6445312
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2527.06640625		
Internal Plating Total:				0.000194	1000000	2527.06640625		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001269	750000	16530.140625		
		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)		0.000423	250000	5510.046875		
Die Attach Total:				0.001692	1000000	22040.1875		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006600	150000	85972.3671875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036078	820000	469956.1875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001100	25000	14328.7275391		
		Carbon Black (C)	1333-86-4	0.000220	5000	2865.74560547		
		Encapsulation Total:				0.043998	1000000	573123.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2409.83129883		
					TOTAL MASS (g) :	0.076769		