

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TO-220

(printed on: 2020-07-11 19:38:59)

TOTAL MASS (g) : 2.022926

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	0.005719	1000000	2827.0925293		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.457910	998500	720693.5		
		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	0.000000	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	0.002190	1500	1082.59008789		
Lead Frame Total:				1.460100	1000000	721776.1875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012534	1000000	6196.12695312		
		External Plating Total:				0.012534	1000000	6196.12695312
		Inter. Plating Ni	7440-02-0	0.017000	893796	8403.66796875		
		Inter. Plating Ag	7440-22-4	0.002020	106203.992188	998.553466797		
		Internal Plating Total:				0.019020	1000000	9402.22070312
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000126	50000	62.2860031128		
		Lead (Pb)	7439-92-1	0.002397	950000	1184.91711426		
		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)		0.000000	0	0		
Die Attach Total:				0.002523	1000000	1247.203125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.053828	103000	26608.9765625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.467727	895000	231213.0625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001045	2000	516.578369141		
		Encapsulation Total:				0.522600	1000000	258338.625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000430	1000000	212.563354492		
					TOTAL MASS (g) :	2.022926		