

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TO-220

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TOTAL MASS (g) : 1.894697

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	0.004895	1000000	2583.52685547
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.327316	998500	700542.6875
		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	0.001994	1500	1052.41113281
Lead Frame Total:				1.329310	1000000	701595.125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.010641	1000000	5616.15380859
		External Plating Total:		0.010641	1000000	5616.15380859
		Inter. Plating Ni	7440-02-0	0.009000	826446.25	4750.10009766
		Inter. Plating Ag	7440-22-4	0.001890	173553.71875	997.520996094
Internal Plating Total:				0.010890	1000000	5747.62109375
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0
		Tin (Sn)	7440-31-5	0.000112	50000	59.112361908
		Lead (Pb)	7439-92-1	0.002131	950000	1124.71813965
		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:				0.002243	1000000	1183.83056641
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.055248	103000	29159.28125
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.480069	895000	253375.109375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.001073	2000	566.317504883
		Encapsulation Total:				0.536390
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000328	1000000	173.114761353
					TOTAL MASS (g) :	1.894697