

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TO-220

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TOTAL MASS (g) : 1.989936

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	0.005703	1000000	2865.9206543		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.428754	998500	717989.8125		
		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	0.002146	1500	1078.42651367		
Lead Frame Total:				1.430900	1000000	719068.25		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.011398	1000000	5727.95605469		
		External Plating Total:				0.011398	1000000	5727.95605469
		Inter. Plating Ni	7440-02-0	0.010000	834028.375	5025.28613281		
		Inter. Plating Ag	7440-22-4	0.001990	165971.640625	1000.03192139		
Internal Plating Total:				0.011990	1000000	6025.31787109		
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000125	50000	62.8160858154		
		Lead (Pb)	7439-92-1	0.002382	950000	1197.02319336		
		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:				0.002507	1000000	1259.8392334		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.054270	103000	27272.2285156		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.471567	895000	236975.921875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001054	2000	529.665161133		
		Encapsulation Total:				0.526891	1000000	264777.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000547	1000000	274.883148193		
					TOTAL MASS (g) :	1.989936		