

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc221cn#pbf

(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 1.020363

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	0.002994	1000000	2934.24975586		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.313072	975000	306824.15625		
		Iron (Fe)	7439-89-6	0.007706	24000	7552.21435547		
		Phosphorus (P)	7723-14-0	0.000096	300	94.0841674805		
		Zinc (Zn)	7440-66-6	0.000225	700	220.509750366		
		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:				0.321099	1000000	314690.96875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.024547	1000000	24057.1113281		
		External Plating Total:				0.024547	1000000	24057.1113281
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002569	1000000	2517.73144531		
Internal Plating Total:				0.002569	1000000	2517.73144531		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000912	750000	893.799560547		
		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)		0.000304	250000	297.933166504		
Die Attach Total:				0.001216	1000000	1191.73266602		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.160224	240000	157026.484375		
		Bromine (Br)	40039-93-8	0.006676	10000	6542.76953125		
		Silica (SiO2)	60676-86-0	0.480672	720000	471079.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.020028	30000	19628.3105469		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.667600	1000000	654276.9375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000338	1000000	331.254669189		
					TOTAL MASS (g) :	1.020363		