

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1069-1in8#pbf

(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.502455

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	0.004826	1000000	9604.83496094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	298056.375		
		Iron (Fe)	7439-89-6	0.003686	24000	7335.97558594		
		Phosphorus (P)	7723-14-0	0.000046	300	91.5504379272		
		Zinc (Zn)	7440-66-6	0.000108	700	214.944488525		
		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:				0.153600	1000000	305698.84375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24699.2929688		
		External Plating Total:				0.012410	1000000	24699.2929688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2443.99853516		
Internal Plating Total:				0.001228	1000000	2443.99853516		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001279	750000	2545.5		
		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)		0.000426	250000	847.836669922		
Die Attach Total:				0.001705	1000000	3393.33666992		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078816	240000	156861.703125		
		Bromine (Br)	40039-93-8	0.003284	10000	6535.90478516		
		Silica (SiO2)	60676-86-0	0.236448	720000	470585.15625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009852	30000	19607.7128906		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.328400	1000000	653590.4375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000286	1000000	569.204833984		
					TOTAL MASS (g) :	0.502455		