

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1059cn#pbf

(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.987225

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	0.003749	1000000	3797.51391602		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000209	1000000	211.704559326		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.284310	975000	287989.125		
		Iron (Fe)	7439-89-6	0.006998	24000	7088.55761719		
		Phosphorus (P)	7723-14-0	0.000087	300	88.1258239746		
		Zinc (Zn)	7440-66-6	0.000204	700	206.639862061		
		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:				0.291599	1000000	295372.46875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.021727	1000000	22007.9179688		
		External Plating Total:				0.021727	1000000	22007.9179688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002333	1000000	2363.19018555		
Internal Plating Total:				0.002333	1000000	2363.19018555		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001057	750000	1070.67810059		
		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)		0.000352	250000	356.555084229		
Die Attach Total:				0.001409	1000000	1427.23327637		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.159768	240000	161835.484375		
		Bromine (Br)	40039-93-8	0.006657	10000	6743.14501953		
		Silica (SiO2)	60676-86-0	0.479303	720000	485505.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.019971	30000	20229.4355469		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.665699	1000000	674313.5
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000500	1000000	506.470275879		
					TOTAL MASS (g) :	0.987225		