

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4232CDHC-1#PBF

(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.037967

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	0.001489	1000000	39218.2695312		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017072	975000	449653.625		
		Iron (Fe)	7439-89-6	0.000420	24000	11062.2382812		
		Phosphorus (P)	7723-14-0	0.000005	300	131.69329834		
		Zinc (Zn)	7440-66-6	0.000012	700	316.063964844		
		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:				0.017509	1000000	461163.625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000817	1000000	21518.7421875		
		External Plating Total:				0.000817	1000000	21518.7421875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000391	1000000	10298.4169922		
		Internal Plating Total:				0.000391	1000000	10298.4169922
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000008	50000	210.70930481		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000049	300000	1290.59448242		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000107	650000	2818.23681641		
		Die Attach Total:				0.000164	1000000	4319.54052734
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002274	130000	59894.1210938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015041	860000	396159.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		

		Carbon Black (C)	1333-86-4	0.000175	10000	4609.265625
		Encapsulation Total:		0.017490	1000000	460663.1875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	2818.23681641
TOTAL MASS (g):						0.037967