

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1991CDD#PBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023788

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	0.001591	1000000	66881.4275		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	408224.8125		
		Iron (Fe)	7439-89-6	0.000239	24000	10046.9287109		
		Phosphorus (P)	7723-14-0	0.000003	300	126.112091064		
		Zinc (Zn)	7440-66-6	0.000007	700	294.261535645		
		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:				0.009960	1000000	418092.15625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000455	1000000	19142.2460938		
External Plating Total:						0.000455	1000000	19142.2460938
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000225	1000000	9458.40625		
Internal Plating Total:						0.000225	1000000	9458.40625
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	32705.0644531		
		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)		0.002259	250000	10887.6757812		
		Die Attach Total:				0.001037	1000000	43592.7421875
		Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.011153	110000	48469.078125
				Bromine (Br)	40099-93-8	0.000105	10000	4413.92285156
Silica (SiO2)	60676-86-0			0.008908	850000	374468.8125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000314	30000	13199.7314453		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000000	0	0		
Encapsulation Total:						0.010480	1000000	440551.5625
Lead Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000040	1000000	1681.49438477		

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