

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4352IDD#PBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023012

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	0.001294	1000000	56236.6123812	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	406303.09375	
		Iron (Fe)	7439-89-6	0.000230	24000	9994.62207031	
		Phosphorus (P)	7723-14-0	0.000003	300	130.364639282	
		Zinc (Zn)	7440-66-6	0.000007	700	304.184143066	
		Nickel (Ni)	7440-02-0	0.000000	0	0	
		Silicon (Si)	7440-21-3	0.000000	0	0	
		Magnesium (Mg)	7439-96-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000000	0	0	
		Lead Frame Total:			0.009590	1000000	416732.28125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.000437	1000000	19006.09375	
External Plating Total:					0.000437	1000000	19006.09375
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000218	1000000	9473.1640625	
Internal Plating Total:					0.000218	1000000	9473.1640625
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000679	750000	29505.8613281	
		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)		0.000226	250000	9820.80273438	
		Die Attach Total:			0.000905	1000000	39326.6679688
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)	0.001368	130000	59446.2773438
				Bromine (Br)	40093-93-8	0.000000	0
Silica (SiO2)	60676-86-0			0.000947	860000	393136.28125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000105	10000	4562.76220703	
Encapsulation Total:					0.010820	1000000	457145.34375
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000048	1000000

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