

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3631IDD#PBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.022142

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	0.000726	1000000	2797.808938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	42267.21875		
		Iron (Fe)	7439-89-6	0.000230	24000	10387.322656		
		Phosphorus (P)	7723-14-0	0.000003	300	135.486816406		
		Zinc (Zn)	7440-66-6	0.000007	700	316.135894775		
		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	433106.15625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000437	1000000	19752.8652344		
External Plating Total:						0.000437	1000000	19752.8652344
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000218	1000000	9845.375		
Internal Plating Total:						0.000218	1000000	9845.375
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000464	750000	20955.2949219		
		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)		0.00155	250000	7000.15185547		
		Die Attach Total:				0.001619	1000000	27955.4453125
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001368	130000	61781.9882812
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.009047	860000	408583.03125		
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	4742.03857422		
Encapsulation Total:						0.010520	1000000	475197.0625
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000032	1000000	1445.19265095		

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