

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4225IUFD-2#PBF

(Engineering Calculation)

QFN 4mm X 5mm Exp. Pad

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TOTAL MASS (g): 0.051924

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	0.002468	1000000	66789.6625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.019997	975000	385119.0625		
		Iron (Fe)	7439-89-6	0.000492	24000	9475.3460938		
		Phosphorus (P)	7723-14-0	0.000006	300	115.55304718		
		Zinc (Zn)	7440-66-6	0.000014	700	266.62379297		
		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:				0.020509	1000000	394979.5625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000227	1000000	4375.7620703		
External Plating Total:						0.000227	1000000	4375.7620703
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000735	1000000	14155.2400469		
Internal Plating Total:						0.000735	1000000	14155.2400469
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001346	750000	25922.3984375		
		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)		0.000449	250000	8647.21972656		
		Die Attach Total:				0.001795	1000000	24569.6210938
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)	0.001244	130000	62475.6757812	
Bromine (Br)	40039-03-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.021457	860000	413236.9375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000250	10000	4814.71044922		
Encapsulation Total:						0.024951	1000000	480527.3125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000239	1000000	4602.86279297		

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