

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4257CDD-1#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023425

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	67917.8646875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	399139.78125		
		Iron (Fe)	7439-89-6	0.000230	24000	9818.41210938		
		Phosphorus (P)	7723-14-0	0.000003	300	128.066253662		
		Zinc (Zn)	7440-66-6	0.000007	700	298.821258545		
		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	409385.125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000437	1000000	18671.0078125		
External Plating Total:						0.000437	1000000	18671.0078125
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000218	1000000	9306.1476094		
Internal Plating Total:						0.000218	1000000	9306.1476094
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	33211.8476562		
		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	11056.3857422		
		Die Attach Total:				0.001027	1000000	44268.2304688
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)	0.001168	130000	58398.2109375	
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009047	860000	386205.09375		
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	4482.31884766		
Encapsulation Total:						0.010220	1000000	449085.65625
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000032	1000000	1366.03991609		

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