

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3971IDD-5#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.022731

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	0.001215	1000000	53450.2867188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	427207.15625		
		Iron (Fe)	7439-89-6	0.000239	24000	10514.1083984		
		Phosphorus (P)	7723-14-0	0.000003	300	131.976257324		
		Zinc (Zn)	7440-66-6	0.000007	700	307.944010596		
		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	438161.1875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000455	1000000	20032.3535156		
		External Plating Total:				0.000455	1000000	20032.3535156
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9898.21972656		
		Internal Plating Total:				0.000225	1000000	9898.21972656
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000261	800000	11569.9179688		
		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)		0.000066	200000	2903.47753906		
		Die Attach Total:				0.000229	1000000	14473.2964844
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.011362	130000	59917.21875
Bromine (Br)	40039-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.009013	860000	396500.65625		
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	4619.16894531		
Encapsulation Total:						0.010480	1000000	461037.03125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000067	1000000	2947.46972656		

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