

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2953IDD-1#PBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.022669

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	0.001023	1000000	45568.822612		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	412450.71875		
		Iron (Fe)	7439-89-6	0.000230	24000	10145.8466797		
		Phosphorus (P)	7723-14-0	0.000003	300	132.337142944		
		Zinc (Zn)	7440-66-6	0.000007	700	308.78621004		
		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:			0.009590	1000000	42307.4875	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000437	1000000	19293.6679688		
		External Plating Total:			0.000437	1000000	19293.6679688	
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000218	1000000	9616.49804688		
		Internal Plating Total:			0.000218	1000000	9616.49804688	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000617	750000	27217.3159375		
		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)		0.002266	250000	9887.14941406		
		Die Attach Total:			0.002266	1000000	36304.484375	
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.01168	130000	60345.7304688
				Bromine (Br)	40079-09-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009047	860000	399084.65625		
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	4631.79980469		
Encapsulation Total:					0.011820	1000000	464062.21875	
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000048	1000000	2117.39428711		

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