

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 7mm X 4mm Exp. Pad

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TOTAL MASS (g) : 0.062751

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	0.001330	1000000	21194.7871094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	452293.5625		
		Iron (Fe)	7439-89-6	0.000699	24000	11139.2158203		
		Phosphorus (P)	7723-14-0	0.000009	300	143.42338562		
		Zinc (Zn)	7440-66-6	0.000020	700	318.718597412		
		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:				0.029110	1000000	463894.9375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001398	1000000	22282.8261719		
		External Plating Total:				0.001398	1000000	22282.8261719
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000635	1000000	10119.3164062		
Internal Plating Total:				0.000635	1000000	10119.3164062		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000008	50000	127.487434387		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000046	300000	733.05279541		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000099	650000	1577.65710449		
Die Attach Total:				0.000153	1000000	2438.19726562		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003888	130000	61958.8984375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025723	860000	409919.90625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000299	10000	4764.84326172		
		Encapsulation Total:				0.029910	1000000	476643.6875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000215	1000000	3426.22485352		
					TOTAL MASS (g) :	0.062751		