

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 2mm X 2mm Exp. Pad

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TOTAL MASS (g) : 0.009065

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	0.000422	1000000	46551.0039062		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.002935	975000	323761.125		
		Iron (Fe)	7439-89-6	0.000072	24000	7942.3515625		
		Phosphorus (P)	7723-14-0	0.000001	300	110.310440063		
		Zinc (Zn)	7440-66-6	0.000002	700	220.620880127		
		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:				0.003010	1000000	332034.4375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000136	1000000	15038.0478516		
		External Plating Total:				0.000136	1000000	15038.0478516
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000072	1000000	7942.3515625		
Internal Plating Total:				0.000072	1000000	7942.3515625		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000146	800000	16105.3242188		
		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)		0.000037	200000	4081.48632812		
Die Attach Total:				0.000183	1000000	20186.8105469		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000677	130000	74680.1640625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004481	860000	494301.0625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000052	10000	5736.14306641		
		Encapsulation Total:				0.005210	1000000	574717.375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	3529.93408203		
					TOTAL MASS (g) :	0.009065		