

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 17:20:38)					TOTAL MASS (g) : 0.023788	
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	66881.4375
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	408224.8125
		Iron (Fe)	7439-89-6	0.000239	24000	10046.9287109
		Phosphorus (P)	7723-14-0	0.000003	300	126.112091064
		Zinc (Zn)	7440-66-6	0.000007	700	294.261535645
		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	418692.15625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19142.2460938
		External Plating Total:		0.000455	1000000	19142.2460938
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9458.40625
		Internal Plating Total:		0.000225	1000000	9458.40625
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	32705.0644531
		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)		0.000259	250000	10887.6757812
		Die Attach Total:		0.001037	1000000	43592.7421875
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.001153	110000	48469.078125
		Bromine (Br)	40039-93-8	0.000105	10000	4413.92285156
		Silica (SiO2)	60676-86-0	0.008908	850000	374468.8125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000314	30000	13199.7314453
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000000	0	0
		Encapsulation Total:		0.010480	1000000	440551.5625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000040	1000000	1681.49438477
					TOTAL MASS (g) :	0.023788