

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 17:31:23)					TOTAL MASS (g) : 0.022904	
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	0.000973	1000000	42480.9921875
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	423980.375
		Iron (Fe)	7439-89-6	0.000239	24000	10434.6933594
		Phosphorus (P)	7723-14-0	0.000003	300	130.979415894
		Zinc (Zn)	7440-66-6	0.000007	700	305.618621826
		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	434851.6875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19881.0449219
		External Plating Total:		0.000455	1000000	19881.0449219
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9823.45507812
		Internal Plating Total:		0.000225	1000000	9823.45507812
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000558	750000	24362.171875
		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)		0.000186	250000	8120.72412109
		Die Attach Total:		0.000744	1000000	32482.8964844
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001362	130000	59464.65625
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.009013	860000	393505.8125
		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	4584.27929688
		Encapsulation Total:		0.010480	1000000	457554.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	2925.20678711
					TOTAL MASS (g) :	0.022904