

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2053cdd#pbf

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.023489

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	0.001636	1000000	69648.5078125
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	398052.28125
		Iron (Fe)	7439-89-6	0.000230	24000	9791.66113281
		Phosphorus (P)	7723-14-0	0.000003	300	127.717315674
		Zinc (Zn)	7440-66-6	0.000007	700	298.007080078
		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	408269.6875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000437	1000000	18620.1367188
		External Plating Total:		0.000437	1000000	18620.1367188
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000218	1000000	9280.79199219
		Internal Plating Total:		0.000218	1000000	9280.79199219
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000792	750000	33717.3671875
		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)		0.000264	250000	11239.1230469
		Die Attach Total:		0.001056	1000000	44956.4921875
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001368	130000	58239.09375
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.009047	860000	385152.8125
		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	4470.10595703
		Encapsulation Total:		0.010520	1000000	447862.03125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	1362.31799316
					TOTAL MASS (g) :	0.023489