

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

(printed on: 2020-07-11 18:40:50)					TOTAL MASS (g) : 0.038398	
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	0.001250	1000000	32553.7773438
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017069	974800.0625	444528.375
		Iron (Fe)	7439-89-6	0.000411	23500	10703.6816406
		Phosphorus (P)	7723-14-0	0.000015	850	390.645324707
		Zinc (Zn)	7440-66-6	0.000015	850	390.645324707
		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:		0.017510	1000000	456013.3125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000817	1000000	21277.2050781
		External Plating Total:		0.000817	1000000	21277.2050781
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000391	1000000	10182.8222656
		Internal Plating Total:		0.000391	1000000	10182.8222656
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000657	750000	17110.265625
		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)		0.000219	250000	5703.421875
		Die Attach Total:		0.000876	1000000	22813.6875
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002274	130000	59221.8320312
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.015041	860000	391713.125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000175	10000	4557.52832031
		Encapsulation Total:		0.017490	1000000	455492.4375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000064	1000000	1666.75341797
					TOTAL MASS (g) :	0.038398