

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

(printed on: 2020-07-11 20:41:05)					TOTAL MASS (g) : 0.038486	
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	0.001271	1000000	33024.9960938
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017069	974800.0625	443511.9375
		Iron (Fe)	7439-89-6	0.000411	23500	10679.2080078
		Phosphorus (P)	7723-14-0	0.000015	850	389.752105713
		Zinc (Zn)	7440-66-6	0.000015	850	389.752105713
		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	454970.65625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000817	1000000	21228.5546875
		External Plating Total:		0.000817	1000000	21228.5546875
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000391	1000000	10159.5390625
		Internal Plating Total:		0.000391	1000000	10159.5390625
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000675	750000	17538.8457031
		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)		0.000225	250000	5846.28173828
		Die Attach Total:		0.000900	1000000	23385.1269531
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002274	130000	59086.421875
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.015041	860000	390817.4375
		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	4547.10791016
		Encapsulation Total:		0.017490	1000000	454450.96875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	2780.23168945
					TOTAL MASS (g) :	0.038486