

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t5581iddb#trmpbf

(Engineering Calculation)

DFN 3mm X 2mm Exp. Pad

(printed on: 2020-07-11 18:10:10)

TOTAL MASS (g) : 0.013196

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	0.000518	1000000	39255.4882812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004211	974800.0625	319121.375		
		Iron (Fe)	7439-89-6	0.000102	23500	7729.84521484		
		Phosphorus (P)	7723-14-0	0.000004	850	303.131164551		
		Zinc (Zn)	7440-66-6	0.000004	850	303.131164551		
		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:				0.004321	1000000	327457.46875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000185	1000000	13989.9970703		
		External Plating Total:				0.000185	1000000	13989.9970703
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000103	1000000	7805.62792969		
Internal Plating Total:				0.000103	1000000	7805.62792969		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000009	100000	682.045166016		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000026	300000	1970.35266113		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000051	600000	3864.92260742		
Die Attach Total:				0.000086	1000000	6517.3203125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001034	130000	78359.4140625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.006837	860000	518127.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000080	10000	6062.62353516		
		Encapsulation Total:				0.007951	1000000	602549
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	2425.04931641		
					TOTAL MASS (g) :	0.013196		