

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3564edcb#trpbf

(Engineering Calculation)

DFN 2mm X 3mm Exp. Pad

(printed on: 2020-07-11 22:20:37)

TOTAL MASS (g) : 0.01524

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	0.000709	1000000	46521.2617188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.005723	975000	375516.46875		
		Iron (Fe)	7439-89-6	0.000141	24000	9251.76074219		
		Phosphorus (P)	7723-14-0	0.000002	300	131.230636597		
		Zinc (Zn)	7440-66-6	0.000004	700	262.461273193		
		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:				0.005870	1000000	385161.9375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000260	1000000	17082.4570312		
		External Plating Total:				0.000260	1000000	17082.4570312
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000136	1000000	8923.68359375		
Internal Plating Total:				0.000136	1000000	8923.68359375		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000461	750000	30248.6621094		
		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)		0.000154	250000	10104.7587891		
Die Attach Total:				0.000615	1000000	40353.4257812		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000989	130000	64893.5507812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.006545	860000	429452.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000076	10000	4986.76416016		
		Encapsulation Total:				0.007610	1000000	499332.59375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000040	1000000	2624.61279297		
					TOTAL MASS (g) :	0.01524		