

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t3045edd-1#pbf

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 17:29:56)

TOTAL MASS (g) : 0.023667

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	0.001724	1000000	72842.8828125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	395058.5625		
		Iron (Fe)	7439-89-6	0.000230	24000	9718.01855469		
		Phosphorus (P)	7723-14-0	0.000003	300	126.756774902		
		Zinc (Zn)	7440-66-6	0.000007	700	295.765777588		
		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	405199.125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000437	1000000	18480.0957031		
		External Plating Total:				0.000437	1000000	18480.0957031
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000218	1000000	9210.99121094		
Internal Plating Total:				0.000218	1000000	9210.99121094		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000823	750000	34773.6015625		
		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)		0.000274	250000	11577.1171875		
Die Attach Total:				0.001097	1000000	46350.7226562		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001368	130000	57801.0859375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.009047	860000	382256.125		
		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	4436.48632812		
		Encapsulation Total:				0.010520	1000000	444493.71875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000081	1000000	3422.43261719		
					TOTAL MASS (g) :	0.023667		