

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3619bidd#trpbf

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.022912

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	0.000968	1000000	42247.9335938		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	423832.3125		
		Iron (Fe)	7439-89-6	0.000239	24000	10431.0507812		
		Phosphorus (P)	7723-14-0	0.000003	300	130.933685303		
		Zinc (Zn)	7440-66-6	0.000007	700	305.511932373		
		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:				0.009960	1000000	434699.84375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19874.1054688		
		External Plating Total:				0.000455	1000000	19874.1054688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9820.02636719		
Internal Plating Total:				0.000225	1000000	9820.02636719		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000568	750000	24790.1113281		
		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)		0.000189	250000	8248.82226562		
Die Attach Total:				0.000757	1000000	33038.9335938		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001362	130000	59443.890625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.009013	860000	393368.4375		
		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	4582.67871094		
		Encapsulation Total:				0.010480	1000000	457395
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	2924.18579102		
					TOTAL MASS (g) :	0.022912		