

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2946ide-1#trpbf

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.032207

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	0.002065	1000000	64116.9492188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	407771.40625		
		Iron (Fe)	7439-89-6	0.000323	24000	10028.9472656		
		Phosphorus (P)	7723-14-0	0.000004	300	124.197494507		
		Zinc (Zn)	7440-66-6	0.000009	700	279.444366455		
		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:				0.013469	1000000	418204		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	19429.7265625		
		External Plating Total:				0.000626	1000000	19429.7265625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	9376.91015625		
Internal Plating Total:				0.000302	1000000	9376.91015625		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000938	750000	29124.3105469		
		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)		0.000313	250000	9718.453125		
Die Attach Total:				0.001251	1000000	38842.765625		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001876	130000	58248.6210938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.012410	860000	385322.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000144	10000	4471.10986328		
		Encapsulation Total:				0.014430	1000000	448042.4375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000064	1000000	1987.15991211		
					TOTAL MASS (g) :	0.032207		