

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc6990hdc#trpbf

(Engineering Calculation)

DFN 2mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.015118

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	0.000638	1000000	42200.3945312		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.005723	975000	378546.78125		
		Iron (Fe)	7439-89-6	0.000141	24000	9326.41894531		
		Phosphorus (P)	7723-14-0	0.000002	300	132.289627075		
		Zinc (Zn)	7440-66-6	0.000004	700	264.57925415		
		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	388270.09375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000260	1000000	17220.3066406		
		External Plating Total:				0.000260	1000000	17220.3066406
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000136	1000000	8995.6953125		
Internal Plating Total:				0.000136	1000000	8995.6953125		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000435	750000	28772.9941406		
		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)		0.000145	250000	9590.99804688		
Die Attach Total:				0.000580	1000000	38363.9921875		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000989	130000	65417.2226562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.006545	860000	432917.8125		
		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	5027.00585938		
		Encapsulation Total:				0.007610	1000000	503362.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000024	1000000	1587.47570801		
					TOTAL MASS (g) :	0.015118		