

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc4078xedd#trpbf

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.02278

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	0.000890	1000000	39068.7382812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	426288.21875		
		Iron (Fe)	7439-89-6	0.000239	24000	10491.4921875		
		Phosphorus (P)	7723-14-0	0.000003	300	131.692367554		
		Zinc (Zn)	7440-66-6	0.000007	700	307.282196045		
		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	437218.6875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19989.265625		
		External Plating Total:				0.000455	1000000	19989.265625
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9876.92773438		
Internal Plating Total:				0.000225	1000000	9876.92773438		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000527	750000	23133.9589844		
		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)		0.000176	250000	7725.95263672		
Die Attach Total:				0.000703	1000000	30859.9121094		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001362	130000	59788.3398438		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.009013	860000	395647.78125		
		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	4609.23339844		
		Encapsulation Total:				0.010480	1000000	460045.34375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	2941.12963867		
					TOTAL MASS (g) :	0.02278		