

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3090HDD#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023497

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	0.001799	1000000	76561.7899625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	41280.46875		
		Iron (Fe)	7439-89-6	0.000239	24000	10171.3544922		
		Phosphorus (P)	7723-14-0	0.000003	300	127.673904419		
		Zinc (Zn)	7440-66-6	0.000007	700	297.905792236		
		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	423877.378
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000455	1000000	19379.3125		
External Plating Total:						0.000455	1000000	19379.3125
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000225	1000000	9575.54296875		
Internal Plating Total:						0.000225	1000000	9575.54296875
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000419	820000	17811.7899625		
		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)		0.000092	180000	3915.33325195		
		Die Attach Total:				0.000511	1000000	21747.1210938
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001162	130000	57963.9570312
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009013	860000	383574.96875		
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	4468.58691406		
Encapsulation Total:						0.010480	1000000	446007.53125
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000067	1000000	2851.3840332

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