

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4151HDD#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023834

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	0.001621	1000000	68011.646875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	407436.96875		
		Iron (Fe)	7439-89-6	0.000239	24000	10027.5390625		
		Phosphorus (P)	7723-14-0	0.000003	300	125.86869812		
		Zinc (Zn)	7440-66-6	0.000007	700	293.693634033		
		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	417884.09375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19105.3027344		
			External Plating Total:			0.000455	1000000	19105.3027344
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9440.15234375		
			Internal Plating Total:			0.000225	1000000	9440.15234375
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000790	750000	33145.4257912		
		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)		0.000263	250000	11034.482812		
			Die Attach Total:			0.001053	1000000	44179.9101562
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001162	130000	57144.3667188
				Bromine (Br)	40079-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009013	860000	378151.5		
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	4405.4030859		
	Encapsulation Total:					0.010480	1000000	439701.28125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000040	1000000	1678.24914551		

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