

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3686EDD#TRPBF

(Engineering Calculation)

DFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.022876

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	0.000924	1000000	40391.8351562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	424499.3125		
		Iron (Fe)	7439-89-6	0.000239	24000	10447.4648438		
		Phosphorus (P)	7723-14-0	0.000003	300	131.13973999		
		Zinc (Zn)	7440-66-6	0.000007	700	305.992706299		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.009960	1000000	435383.90625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000455	1000000	19905.3789062		
External Plating Total:						0.000455	1000000	19905.3789062
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000225	1000000	9835.47851562		
Internal Plating Total:						0.000225	1000000	9835.47851562
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000574	750000	25091.4003906		
		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)		0.000191	250000	8349.22840219		
		Die Attach Total:				0.000765	1000000	33440.6328125
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001162	130000	59537.4375
				Bromine (Br)	40079-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.009013	860000	393987.4375		
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	4589.89013672		
Encapsulation Total:						0.010480	1000000	45814.78125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000067	1000000	2928.78710938		

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