

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3862EUH-1#TRPBF

(Engineering Calculation)

QFN 5mm X 5mm Exp. Pad

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TOTAL MASS (g): 0.063334

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	0.001291	1000000	20383.9026201	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	448130.15625	
		Iron (Fe)	7439-89-6	0.000699	24000	11036.677344	
		Phosphorus (P)	7723-14-0	0.000009	300	142.103109414	
		Zinc (Zn)	7440-66-6	0.000020	700	315.784290004	
		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:			0.029110	1000000	459624.71875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.001398	1000000	22077.7089844	
External Plating Total:					0.001398	1000000	22077.7089844
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000635	1000000	10026.1660156	
Internal Plating Total:					0.000635	1000000	10026.1660156
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000671	750000	10594.578125	
		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)		0.000234	250000	3536.78955678	
		Die Attach Total:			0.000905	1000000	14131.3681641
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.003888	130000
Bromine (Br)	40093-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.025723	860000	406146.5625	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000299	10000	4720.98193359	
Encapsulation Total:					0.029910	1000000	472256.09375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000095	1000000	1499.97766113	

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