

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3868IUH#PBF

(Engineering Calculation)

QFN 5mm X 5mm Exp. Pad

(printed on: 2014-01-20 01:02:30)

TOTAL MASS (g): 0.063518

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	0.001293	1000000	21930.695325	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	446832	
		Iron (Fe)	7439-89-6	0.000699	24000	11004.7070312	
		Phosphorus (P)	7723-14-0	0.000009	300	141.691497803	
		Zinc (Zn)	7440-66-6	0.000020	700	314.8699646	
		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	45820.25
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.001398	1000000	22013.7558594	
External Plating Total:					0.001398	1000000	22013.7558594
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000635	1000000	9997.12207031	
Internal Plating Total:					0.000635	1000000	9997.12207031
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000709	750000	11162.1416016	
		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)		0.000236	250000	3715.46606445	
		Die Attach Total:			0.000945	1000000	14877.6074219
		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	404970.03125	
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	4707.30664062	
Encapsulation Total:					0.029910	1000000	470888.09375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000127	1000000	1999.42456085	

TOTAL MASS (g): 0.063518