

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3746EUHH#PBF

(Engineering Calculation)

QFN 5mm X 5mm Exp. Pad

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TOTAL MASS (g): 0.117709

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	0.002585	1000000	29776.878962
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.049823	975000	423273.46875
		Iron (Fe)	7439-89-6	0.001226	24000	10415.5361328
		Phosphorus (P)	7723-14-0	0.000015	300	127.433143616
		Zinc (Zn)	7440-66-6	0.000006	700	305.839560902
		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:		0.051100	1000000	434122.28125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.002793	1000000	23726.0546875
		External Plating Total:		0.002793	1000000	23726.0546875
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000138	1000000	1172.3850977
		Internal Plating Total:		0.000138	1000000	1172.3850977
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001380	750000	11723.8496094
		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)		0.000460	250000	3907.95019531
		Die Attach Total:		0.001840	1000000	15631.8007812
Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.007554	130000	64175.3359375
		Bromine (Br)	40093-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.049975	860000	424564.78125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000551	10000	4935.91113281
		Encapsulation Total:		0.058110	1000000	493676.03125
Bond Wire Estimated	AFW/TANAKA/ Kti	Gold (Au)	7440-57-5	0.000223	1000000	1894.50610352

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0.117709