

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t3508huf#pbf

(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g) :0.040772

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	0.001838	1000000	45080.5
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	391474.40625
		Iron (Fe)	7439-89-6	0.000393	24000	9639.08398438
		Phosphorus (P)	7723-14-0	0.000005	300	122.634666443
		Zinc (Zn)	7440-66-6	0.000011	700	269.796264648
		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:		0.016370	1000000	401505.875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000773	1000000	18947.2304688
		External Plating Total:		0.000773	1000000	18947.2304688
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000362	1000000	8878.75
		Internal Plating Total:		0.000362	1000000	8878.75
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000861	750000	21117.6894531
		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)		0.000287	250000	7039.22998047
		Die Attach Total:		0.001148	1000000	28156.9199219
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002616	130000	64162.4570312
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.017303	860000	424389.5
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000201	10000	4929.91357422
		Encapsulation Total:		0.020120	1000000	493481.90625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000161	1000000	3948.83618164
					TOTAL MASS (g) :	0.040772