

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 20:40:45)					TOTAL MASS (g) : 0.022934	
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	0.000784	1000000	34185.4101562
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.008752	975000	381620.75
		Iron (Fe)	7439-89-6	0.000215	24000	9374.82519531
		Phosphorus (P)	7723-14-0	0.000003	300	130.811523438
		Zinc (Zn)	7440-66-6	0.000006	700	261.623046875
		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:		0.008976	1000000	391388.0625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000413	1000000	17997.9726562
		External Plating Total:		0.000413	1000000	17997.9726562
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000203	1000000	8851.57910156
		Internal Plating Total:		0.000203	1000000	8851.57910156
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000488	750000	21278.6738281
		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)		0.000163	250000	7107.42578125
		Die Attach Total:		0.000651	1000000	28386.0996094
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001534	130000	66888.2890625
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.010148	860000	442491.75
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000118	10000	5145.25292969
		Encapsulation Total:		0.011800	1000000	514525.28125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	4665.61083984
					TOTAL MASS (g) :	0.022934