

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t3840eufe#trpbf

(Engineering Calculation)

QFN 4mm X 6mm Exp. Pad

(printed on: 2020-07-11 16:39:32)

TOTAL MASS (g) : 0.061005

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	0.003507	1000000	57487.4179688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023576	975000	386462.34375		
		Iron (Fe)	7439-89-6	0.000580	24000	9507.47167969		
		Phosphorus (P)	7723-14-0	0.000007	300	114.745346069		
		Zinc (Zn)	7440-66-6	0.000017	700	278.667297363		
		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:				0.024180	1000000	396363.21875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000273	1000000	4469.32470703		
		External Plating Total:				0.000273	1000000	4469.32470703
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000647	1000000	10605.7480469		
Internal Plating Total:				0.000647	1000000	10605.7480469		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001366	750000	22391.734375		
		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)		0.000455	250000	7458.44726562		
Die Attach Total:				0.001821	1000000	29850.1816406		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003892	130000	63798.4140625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025748	860000	422066.15625		
		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	4901.265625		
		Encapsulation Total:				0.029939	1000000	490765.84375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000638	1000000	10458.21875		
					TOTAL MASS (g) :	0.061005		