

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t3033eudc#pbf

(Engineering Calculation)

QFN 3mm X 4mm Exp. Pad

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TOTAL MASS (g) : 0.164764

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	0.003758	1000000	22808.4101562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	79708.0546875		
		Iron (Fe)	7439-89-6	0.000323	24000	1960.38232422		
		Phosphorus (P)	7723-14-0	0.000004	300	24.277179718		
		Zinc (Zn)	7440-66-6	0.000009	700	54.6236572266		
		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:				0.013469	1000000	81747.3359375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	3797.97509766		
		External Plating Total:				0.000626	1000000	3797.97509766
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	1832.92712402		
Internal Plating Total:				0.000302	1000000	1832.92712402		
Die Attach	SnAg CAP	Silver (Ag)	7440-22-4	0.000058	25000	352.019134521		
		Tin (Sn)	7440-31-5	0.002251	975000	13661.9824219		
		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)		0.000000	0	0		
Die Attach Total:				0.002309	1000000	14014.0019531		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.018759	130000	113853.898438		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.124098	860000	753187.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001443	10000	8757.99316406		
		Encapsulation Total:				0.144300	1000000	875799.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000000	0	0		
					TOTAL MASS (g) :	0.164764		