

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3586eufe-2#pbf

(Engineering Calculation)

QFN 4mm X 6mm Exp. Pad

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TOTAL MASS (g) : 0.060324

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	0.003007	1000000	49847.7773438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023576	975000	390825.15625		
		Iron (Fe)	7439-89-6	0.000580	24000	9614.80175781		
		Phosphorus (P)	7723-14-0	0.000007	300	116.040718079		
		Zinc (Zn)	7440-66-6	0.000017	700	281.813171387		
		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	400837.8125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000273	1000000	4519.77929688		
		External Plating Total:				0.000273	1000000	4519.77929688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000647	1000000	10725.4775391		
Internal Plating Total:				0.000647	1000000	10725.4775391		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001230	750000	20390.0136719		
		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)		0.000410	250000	6796.67089844		
Die Attach Total:				0.001640	1000000	27186.6835938		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003892	130000	64518.6367188		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025748	860000	426830.90625		
		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	4956.59667969		
		Encapsulation Total:				0.029939	1000000	496306.15625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000638	1000000	10576.2832031		
					TOTAL MASS (g) :	0.060324		