

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2385IUH-16#PBF

(Engineering Calculation)

QFN 5mm X 5mm Exp. Pad

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TOTAL MASS
(g): **0.066197**

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	0.003241	1000000	48959.7226562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	428748.78125		
		Iron (Fe)	7439-89-6	0.000699	24000	10559.3486328		
		Phosphorus (P)	7723-14-0	0.000009	300	135.957275391		
		Zinc (Zn)	7440-66-6	0.000020	700	302.127258301		
		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:				0.029110	1000000	439746.21875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001398	1000000	21122.8632812		
		External Plating Total:				0.001398	1000000	21122.8632812
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000635	1000000	9592.54101562		
		Internal Plating Total:				0.000635	1000000	9592.54101562
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001266	750000	19124.6542969		
		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)		0.000422	250000	6374.88525391		
		Die Attach Total:				0.001688	1000000	25499.5410156
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003888	130000	58733.5429688		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.025723	860000	388580.96875		
		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	4516.80273438
		Encapsulation Total:		0.029910	1000000	451831.34375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000215	1000000	3247.86791992
				TOTAL MASS (g):		0.066197