

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc6954iuff-1#pbf

(Engineering Calculation)

QFN 4mm X 7mm Exp. Pad

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TOTAL MASS (g) : 0.076227

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	0.005286	1000000	69345.8046875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.032024	975000	420115.34375		
		Iron (Fe)	7439-89-6	0.000788	24000	10337.5878906		
		Phosphorus (P)	7723-14-0	0.000010	300	131.187652588		
		Zinc (Zn)	7440-66-6	0.000023	700	301.731628418		
		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:				0.032845	1000000	430885.875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001569	1000000	20579.1699219		
		External Plating Total:				0.001569	1000000	20579.1699219
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000718	1000000	9419.2734375		
		Internal Plating Total:				0.000718	1000000	9419.2734375
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001932	750000	25345.4550781		
		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)		0.000644	250000	8448.48535156		
Die Attach Total:				0.002576	1000000	33793.9414062		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004302	130000	56436.9335938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.028457	860000	373320.71875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000331	10000	4342.31152344		
		Encapsulation Total:				0.033090	1000000	434099.9375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000143	1000000	1875.98352051		
					TOTAL MASS (g) :	0.076227		