

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3959IUHE#PBF

(Engineering Calculation)

QFN 5mm X 6mm Exp. Pad

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TOTAL MASS (g): 0.068212

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	0.001244	1000000	19703.234375
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.025794	975000	378143.75
		Iron (Fe)	7439-89-6	0.000635	24000	9309.19238281
		Phosphorus (P)	7723-14-0	0.000008	300	117.281150818
		Zinc (Zn)	7440-66-6	0.000019	700	278.542724609
		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:		0.026456	1000000	387848.78125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.001276	1000000	18708.5683594
		External Plating Total:		0.001276	1000000	18708.5683594
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000573	1000000	8400.26209531
		Internal Plating Total:		0.000573	1000000	8400.26209531
		Silver (Ag)	7440-22-4	0.000708	750000	10179.3828125
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	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)		0.000236	250000	3459.79418945
		Die Attach Total:		0.000944	1000000	13839.1767578
Encapsulation	MULTIAROMATIC RESIN BcSB FREE	Resin (EP)		0.004876	130000	71482.859375
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.032257	860000	472892.3125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000375	10000	5497.55419922
		Encapsulation Total:		0.037508	1000000	549872.6875
		Gold (Au)	7440-57-5	0.000111	1000000	1627.27612305
Bond Wire Estimated	AFW/TANAKA/Kn					

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0.068212