

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

TSSOP

LTC2952IF#PBF

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TOTAL MASS (g): 0.072411

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	0.001729	1000000	51635.5625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024098	962000	332793.1875		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.000751	3000	10371.303709		
		Silicon (Si)	7440-21-3	0.000163	6500	2251.0280859		
		Magnesium (Mg)	7439-95-4	0.000028	1500	524.779663086		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.025050	1000000	345940.28125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001770	1000000	2448.228156		
External Plating Total:						0.001770	1000000	2448.228156
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000000	0	0		
Internal Plating Total:						0.000000	0	0
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001052	750000	14528.1113281		
		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)		0.000151	250000	4847.30712891		
		Die Attach Total:				0.001403	1000000	19375.4199219
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.005414	135000	74767.296875
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.034486	860000	476251.40625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000201	5000	2775.80859375		
Encapsulation Total:						0.040101	1000000	533794.5
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000348	1000000	4805.87744141		

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