

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2052ign#pbf

(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.080381

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	0.001877	1000000	23351.2695312
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	372388.65625
		Iron (Fe)	7439-89-6	0.000737	24000	9168.82519531
		Phosphorus (P)	7723-14-0	0.000009	300	111.966659546
		Zinc (Zn)	7440-66-6	0.000021	700	261.255554199
		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:		0.030700	1000000	381930.71875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.002272	1000000	28266.3574219
		External Plating Total:		0.002272	1000000	28266.3574219
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000246	1000000	3060.42211914
		Internal Plating Total:		0.000246	1000000	3060.42211914
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000658	750000	8186.00683594
		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)		0.000219	250000	2724.52172852
		Die Attach Total:		0.000877	1000000	10910.5283203
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006623	150000	82395.015625
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.036203	820000	450392.09375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.001104	25000	13734.5771484
		Carbon Black (C)	1333-86-4	0.000221	5000	2749.40356445
		Encapsulation Total:		0.044151	1000000	549271.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000258	1000000	3209.71069336
					TOTAL MASS (g) :	0.080381