

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1053csw#trpbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.514597

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	0.005928	1000000	11519.7001953		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.161470	975000	313779.6875		
		Iron (Fe)	7439-89-6	0.003975	24000	7724.49609375		
		Phosphorus (P)	7723-14-0	0.000050	300	97.1634674072		
		Zinc (Zn)	7440-66-6	0.000116	700	225.419250488		
		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:				0.165611	1000000	321826.78125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005671	1000000	11019.7617188		
		External Plating Total:				0.005671	1000000	11019.7617188
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001325	1000000	2574.83178711		
Internal Plating Total:				0.001325	1000000	2574.83178711		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001469	750000	2854.66259766		
		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)		0.000490	250000	952.202026367		
Die Attach Total:				0.001959	1000000	3806.86450195		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.045043	135000	87530.6796875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.286939	860000	557599.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001668	5000	3241.37329102		
		Encapsulation Total:				0.333650	1000000	648371.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000453	1000000	880.301025391		
					TOTAL MASS (g) :	0.514597		