

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2453cts8#trpbf

(Engineering Calculation)

TSOT-23

(printed on: 2020-07-11 19:12:12)

TOTAL MASS (g) : 0.012098

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	0.000499	1000000	41247.5429688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004582	975000	378750		
		Iron (Fe)	7439-89-6	0.000113	24000	9340.62597656		
		Phosphorus (P)	7723-14-0	0.000001	300	82.66040802		
		Zinc (Zn)	7440-66-6	0.000003	700	247.981231689		
		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:				0.004699	1000000	388421.28125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000663	1000000	54778.2226562		
		External Plating Total:				0.000663	1000000	54778.2226562
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6612.83203125		
Internal Plating Total:				0.000080	1000000	6612.83203125		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000004	50000	330.64163208		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000027	300000	2231.83105469		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000058	650000	4794.30371094		
Die Attach Total:				0.000089	1000000	7356.77636719		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000777	130000	64227.1328125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004963	830000	410243.59375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000209	35000	17276.0253906		
		Carbon Black (C)	1333-86-4	0.000030	5000	2479.81201172		
		Encapsulation Total:				0.005979	1000000	494226.5625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	7356.77636719		
					TOTAL MASS (g) :	0.012098		