

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC23661TS8#TRMPBF

(Engineering Calculation)

TS07-23

(printed on: 2014-01-19 23:37:03)

TOTAL MASS (g): 0.012111

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	0.000513	1000000	42359.2095312		
Die Coat	Dow Corning	Silicone	69830-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004382	975000	378343.40625		
		Iron (Fe)	7439-89-6	0.000113	24000	9330.59960938		
		Phosphorus (P)	7723-14-0	0.000001	300	82.5716705322		
		Zinc (Zn)	7440-66-6	0.000003	700	247715082114		
		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:		0.004499	1000000	388004.3325	
Plating	PMI	Enter. Plating Pb	7439-92-1	0.000000	0	0		
		Enter. Plating Sn	7440-31-5	0.000663	1000000	54719.421875		
			External Plating Total:		0.000663	1000000	54719.421875	
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000000	1000000	6605.73380672		
			Internal Plating Total:		0.000000	1000000	6605.73380672	
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	330.28682129		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000026	300000	2146.86352539		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000057	650000	4706.58540922		
			Die Attach Total:		0.000067	1000000	7182.73983984	
		Encapsulation	MULTIAROMATIC RESIN B/SB-FREE	Resin (EP)		0.000347	58000	28652.3991406
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.005322	890000	439446.4375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000299	50000	24688.9316406		
Carbon Black (C)	1333-86-4			0.000012	200	990.860168457		
	Encapsulation Total:		0.005980	1000000	493778.625			
Bond Wire Estimated	APW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000089	1000000	7348.87039453		

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0.012111