

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1117CST-5#TRPBF

(Engineering Calculation)

SOT-223

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TOTAL MASS (g): 0.11697

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	0.002855	1000000	24407.8886719		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	535973.25		
		Iron (Fe)	7439-89-6	0.001543	24000	13191.3720703		
		Phosphorus (P)	7723-14-0	0.000019	300	162.434265137		
		Zinc (Zn)	7440-66-6	0.000045	300	384.712768555		
		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:			0.064300	1000000	54971.75
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13758.953125		
			External Plating Total:			0.001609	1000000	13758.953125
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4394.27490234		
			Internal Plating Total:			0.000514	1000000	4394.27490234
Die Attach	95 Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000077	50000	658.286193848		
		Lead (Pb)	7439-92-1	0.001466	950000	12533.0859375		
		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)		0.000000	0	0		
			Die Attach Total:			0.001543	1000000	13191.3720703
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.004735	1030000	40505.9904688
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.041170	895000	351969.40625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000092	2000	786.523864746		
	Encapsulation Total:					0.046000	1000000	393261.50625
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.000149	1000000	1273.82666016		

TOTAL MASS (g):

0.116970