

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1521cst-3.3#pbf

(Engineering Calculation)

SOT-223

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**TOTAL MASS (g) : 0.115297**

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	0.001703	1000000	14770.4990234		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	543750.375		
		Iron (Fe)	7439-89-6	0.001543	24000	13382.7832031		
		Phosphorus (P)	7723-14-0	0.000019	300	164.791229248		
		Zinc (Zn)	7440-66-6	0.000045	700	390.295043945		
		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		
<b>Lead Frame Total:</b>				<b>0.064300</b>	<b>1000000</b>	<b>557688.25</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13958.5986328		
		<b>External Plating Total:</b>				<b>0.001609</b>	<b>1000000</b>	<b>13958.5986328</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4458.03662109		
<b>Internal Plating Total:</b>				<b>0.000514</b>	<b>1000000</b>	<b>4458.03662109</b>		
Die Attach	Solder Wire Dia 0.3m *100m 95Pb/5Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000054	50000	468.354034424		
		Lead (Pb)	7439-92-1	0.001033	950000	8959.43847656		
		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		
<b>Die Attach Total:</b>				<b>0.001087</b>	<b>1000000</b>	<b>9427.79296875</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	41093.734375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.041170	895000	357076.625		
		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	797.936523438		
		<b>Encapsulation Total:</b>				<b>0.046000</b>	<b>1000000</b>	<b>398968.25</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000084	1000000	728.550720215		
					<b>TOTAL MASS (g) :</b>	<b>0.115297</b>		