

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(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	700	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		
<b>Lead Frame Total:</b>				<b>0.064300</b>	<b>1000000</b>	<b>549711.75</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13758.953125		
		<b>External Plating Total:</b>				<b>0.001609</b>	<b>1000000</b>	<b>13758.953125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4394.27490234		
<b>Internal Plating Total:</b>				<b>0.000514</b>	<b>1000000</b>	<b>4394.27490234</b>		
Die Attach	Solder Wire Dia 0.3mm *100m 95Pb/5Sn	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		
<b>Die Attach Total:</b>				<b>0.001543</b>	<b>1000000</b>	<b>13191.3720703</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	40505.9804688		
		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		
		<b>Encapsulation Total:</b>				<b>0.046000</b>	<b>1000000</b>	<b>393261.90625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000149	1000000	1273.82666016		
					<b>TOTAL MASS (g) :</b>	<b>0.11697</b>		