

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1129ist-5#trpbf

(Engineering Calculation)

SOT-223

(printed on: 2020-07-11 20:03:27)

**TOTAL MASS (g) : 0.117015**

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	0.002887	1000000	24671.96875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	535767.125		
		Iron (Fe)	7439-89-6	0.001543	24000	13186.2988281		
		Phosphorus (P)	7723-14-0	0.000019	300	162.371795654		
		Zinc (Zn)	7440-66-6	0.000045	700	384.564788818		
		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>549500.375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13753.6611328		
		<b>External Plating Total:</b>				<b>0.001609</b>	<b>1000000</b>	<b>13753.6611328</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4392.58496094		
<b>Internal Plating Total:</b>				<b>0.000514</b>	<b>1000000</b>	<b>4392.58496094</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	0.000078	50000	666.578918457		
		Lead (Pb)	7439-92-1	0.001478	950000	12630.8164062		
		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>0.001556</b>	<b>1000000</b>	<b>13297.3955078</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	40490.3984375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.041170	895000	351834.0625		
		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	786.221374512		
		<b>Encapsulation Total:</b>				<b>0.046000</b>	<b>1000000</b>	<b>393110.6875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000149	1000000	1273.3366992		
					<b>TOTAL MASS (g) :</b>	<b>0.117015</b>		