

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DDPAK

(printed on: 2020-07-11 20:06:42)

**TOTAL MASS (g) : 1.403621**

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	0.006056	1000000	4314.55419922		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.852419	998500	607299.9375		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		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	0.001281	1500	912.639343262		
<b>Lead Frame Total:</b>				<b>0.853700</b>	<b>1000000</b>	<b>608212.5</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.009978	1000000	7108.91113281		
		<b>External Plating Total:</b>				<b>0.009978</b>	<b>1000000</b>	<b>7108.91113281</b>
		Inter. Plating Ni	7440-02-0	0.004000	740740.75	2849.77197266		
		Inter. Plating Ag	7440-22-4	0.001400	259259.265625	997.420043945		
		<b>Internal Plating Total:</b>				<b>0.005400</b>	<b>1000000</b>	<b>3847.19213867</b>
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000131	50000	93.3300170898		
		Lead (Pb)	7439-92-1	0.002484	950000	1769.70825195		
		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>0.002615</b>	<b>1000000</b>	<b>1863.03820801</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.053704	103000	38261.0390625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466653	895000	332463.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001043	2000	743.07800293		
		<b>Encapsulation Total:</b>				<b>0.521400</b>	<b>1000000</b>	<b>371467.75</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.004472	1000000	3186.04467773		
					<b>TOTAL MASS (g) :</b>	<b>1.403621</b>		