

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

DDPAK

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**TOTAL MASS (g) : 1.375959**

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	0.004895	1000000	3557.51953125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.827657	998500	601512.9375		
		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	0.001243	1500	903.370178223		
<b>Lead Frame Total:</b>				<b>0.828900</b>	<b>1000000</b>	<b>602416.3125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.009685	1000000	7038.54003906		
		<b>External Plating Total:</b>				<b>0.009685</b>	<b>1000000</b>	<b>7038.54003906</b>
		Inter. Plating Ni	7440-02-0	0.005000	781250	3633.83007812		
		Inter. Plating Ag	7440-22-4	0.001400	218750	1017.47235107		
<b>Internal Plating Total:</b>				<b>0.006400</b>	<b>1000000</b>	<b>4651.30224609</b>		
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000112	50000	81.3977966309		
		Lead (Pb)	7439-92-1	0.002131	950000	1548.73828125		
		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>0.002243</b>	<b>1000000</b>	<b>1630.13623047</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.053704	103000	39030.2421875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.466653	895000	339147.53125		
		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	758.016967773		
		<b>Encapsulation Total:</b>				<b>0.521400</b>	<b>1000000</b>	<b>378935.78125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.001193	1000000	867.031860352		
					<b>TOTAL MASS (g) :</b>	<b>1.375959</b>		