

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

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**TOTAL MASS (g) : 0.138255**

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	20881.6386719		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	346539.6875		
		Iron (Fe)	7439-89-6	0.001179	24000	8527.69335938		
		Phosphorus (P)	7723-14-0	0.000015	300	108.494819641		
		Zinc (Zn)	7440-66-6	0.000034	700	245.921600342		
		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>0.049139</b>	<b>1000000</b>	<b>355421.8125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	18700.4394531		
		<b>External Plating Total:</b>				<b>0.002585</b>	<b>1000000</b>	<b>18700.4394531</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2842.56445312		
<b>Internal Plating Total:</b>				<b>0.000393</b>	<b>1000000</b>	<b>2842.56445312</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000883	750000	6386.72851562		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		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)		0.000294	250000	2126.49829102		
<b>Die Attach Total:</b>				<b>0.001177</b>	<b>1000000</b>	<b>8513.22753906</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010624	130000	76843.265625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067828	830000	490599.125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002860	35000	20686.3457031		
		Carbon Black (C)	1333-86-4	0.000409	5000	2958.29223633		
		<b>Encapsulation Total:</b>				<b>0.081721</b>	<b>1000000</b>	<b>591087.0625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000353	1000000	2553.24487305		
					<b>TOTAL MASS (g) :</b>	<b>0.138255</b>		