

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

SSOP

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**TOTAL MASS (g) : 0.152285**

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	0.007011	1000000	46038.6523438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.040950	975000	268903.5625		
		Iron (Fe)	7439-89-6	0.001008	24000	6619.1640625		
		Phosphorus (P)	7723-14-0	0.000013	300	85.3662033081		
		Zinc (Zn)	7440-66-6	0.000029	700	190.432312012		
		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>0.042000</b>	<b>1000000</b>	<b>275798.5</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002272	1000000	14919.9121094		
		<b>External Plating Total:</b>				<b>0.002272</b>	<b>1000000</b>	<b>14919.9121094</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000336	1000000	2206.38818359		
<b>Internal Plating Total:</b>				<b>0.000336</b>	<b>1000000</b>	<b>2206.38818359</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001672	750000	10979.4072266		
		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)		0.000557	250000	3657.61376953		
<b>Die Attach Total:</b>				<b>0.002229</b>	<b>1000000</b>	<b>14637.0214844</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.013230	135000	86876.5234375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.084280	860000	553435.6875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000490	5000	3217.64941406		
		<b>Encapsulation Total:</b>				<b>0.098000</b>	<b>1000000</b>	<b>643529.8125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000437	1000000	2869.61791992		
					<b>TOTAL MASS (g) :</b>	<b>0.152285</b>		