

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

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(Engineering Calculation)

MSOP-Exposed

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**TOTAL MASS (g) : 0.038603**

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	0.003347	1000000	86703.0546875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	358650.6875		
		Iron (Fe)	7439-89-6	0.000341	24000	8833.50488281		
		Phosphorus (P)	7723-14-0	0.000004	300	103.61882782		
		Zinc (Zn)	7440-66-6	0.000010	700	259.047058105		
		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>0.014200</b>	<b>1000000</b>	<b>367846.84375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	18392.9902344		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>18392.9902344</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2227.80493164		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>2227.80493164</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000990	750000	25645.6601562		
		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)		0.000330	250000	8548.55371094		
<b>Die Attach Total:</b>				<b>0.001320</b>	<b>1000000</b>	<b>34194.2148438</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	63181.578125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015571	830000	403362.1875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000657	35000	17019.3925781		
		Carbon Black (C)	1333-86-4	0.000094	5000	2435.04248047		
		<b>Encapsulation Total:</b>				<b>0.018761</b>	<b>1000000</b>	<b>485998.21875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000179	1000000	4636.94238281		
					<b>TOTAL MASS (g) :</b>	<b>0.038603</b>		