

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t6004hms8#pbf

(Engineering Calculation)

MSOP

(printed on: 2020-07-11 16:55:16)

**TOTAL MASS (g) : 0.026555**

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	0.001460	1000000	54980.1757812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000061	1000000	2297.11694336		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.006206	580000	233703.421875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.004494	420000	169233.515625		
		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>0.010700</b>	<b>1000000</b>	<b>402936.9375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26737.875		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>26737.875</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3238.55834961		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>3238.55834961</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000558	750000	21012.9707031		
		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)		0.000186	250000	7004.32373047		
<b>Die Attach Total:</b>				<b>0.000744</b>	<b>1000000</b>	<b>28017.2949219</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001644	130000	61909.1835938		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010494	830000	395179.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000442	35000	16644.6835938		
		Carbon Black (C)	1333-86-4	0.000063	5000	2372.43237305		
		<b>Encapsulation Total:</b>				<b>0.012643</b>	<b>1000000</b>	<b>476105.71875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000151	1000000	5686.30615234		
					<b>TOTAL MASS (g) :</b>	<b>0.026555</b>		