

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc6363hms8-2#pbf

(Engineering Calculation)

MSOP

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**TOTAL MASS (g) : 0.025506**

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	0.001056	1000000	41401.9804688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.006206	580000	243315.078125		
		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	176193.671875		
		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>419508.71875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	27837.5390625		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>27837.5390625</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3371.75244141		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>3371.75244141</b>		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000005	50000	196.032104492		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000031	300000	1215.39916992		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000068	650000	2666.03686523		
<b>Die Attach Total:</b>				<b>0.000104</b>	<b>1000000</b>	<b>4077.46801758</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	65043.4492188		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010591	830000	415235.21875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000447	35000	17525.2714844		
		Carbon Black (C)	1333-86-4	0.000064	5000	2509.2109375		
		<b>Encapsulation Total:</b>				<b>0.012761</b>	<b>1000000</b>	<b>500313.15625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3489.37158203		
					<b>TOTAL MASS (g) :</b>	<b>0.025506</b>		