

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1t1460ccms8-2.5#trpbf

(Engineering Calculation)

MSOP

(printed on: 2020-07-11 20:09:25)

**TOTAL MASS (g) : 0.026436**

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	0.001361	1000000	51482.7773438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000057	1000000	2156.14868164		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.006206	580000	234755.421875		
		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	169995.3125		
		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>404750.75</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26858.234375		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>26858.234375</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3253.13647461		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>3253.13647461</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000540	750000	20426.6699219		
		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)		0.000180	250000	6808.890625		
<b>Die Attach Total:</b>				<b>0.000720</b>	<b>1000000</b>	<b>27235.5625</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001645	130000	62225.6914062		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010500	830000	397185.28125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000443	35000	16757.4355469		
		Carbon Black (C)	1333-86-4	0.000063	5000	2383.11181641		
		<b>Encapsulation Total:</b>				<b>0.012651</b>	<b>1000000</b>	<b>478551.53125</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000151	1000000	5711.90234375		
					<b>TOTAL MASS (g) :</b>	<b>0.026436</b>		