

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

1tc6102hvcms8#pbf

(Engineering Calculation)

MSOP

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**TOTAL MASS (g) : 0.026514**

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	0.001433	1000000	54046.8671875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	393489.84375		
		Iron (Fe)	7439-89-6	0.000257	24000	9692.98339844		
		Phosphorus (P)	7723-14-0	0.000003	300	113.147666931		
		Zinc (Zn)	7440-66-6	0.000007	700	264.011199951		
		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>0.010700</b>	<b>1000000</b>	<b>403560</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26779.2207031		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>26779.2207031</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3243.56616211		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>3243.56616211</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000552	750000	20819.1699219		
		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)		0.000184	250000	6939.72363281		
<b>Die Attach Total:</b>				<b>0.000736</b>	<b>1000000</b>	<b>27758.8945312</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001314	103000	49558.6757812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.011420	895000	430715.4375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000026	2000	980.613037109		
		<b>Encapsulation Total:</b>				<b>0.012760</b>	<b>1000000</b>	<b>481254.71875</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3356.71411133		
					<b>TOTAL MASS (g) :</b>	<b>0.026514</b>		