

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc4253bcgn#trpbf

(Engineering Calculation)

SSOP

(printed on: 2020-07-11 22:33:41)

**TOTAL MASS (g) : 0.08022**

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	0.001749	1000000	21802.5234375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	373136.03125		
		Iron (Fe)	7439-89-6	0.000737	24000	9187.22753906		
		Phosphorus (P)	7723-14-0	0.000009	300	112.191375732		
		Zinc (Zn)	7440-66-6	0.000021	700	261.779876709		
		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>0.030700</b>	<b>1000000</b>	<b>382697.21875</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002272	1000000	28323.0878906		
		<b>External Plating Total:</b>				<b>0.002272</b>	<b>1000000</b>	<b>28323.0878906</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000246	1000000	3066.56420898		
<b>Internal Plating Total:</b>				<b>0.000246</b>	<b>1000000</b>	<b>3066.56420898</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000633	750000	7890.79248047		
		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)		0.000211	250000	2630.2644043		
<b>Die Attach Total:</b>				<b>0.000844</b>	<b>1000000</b>	<b>10521.0576172</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006623	150000	82560.3828125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036203	820000	451296.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001104	25000	13762.1416016		
		Carbon Black (C)	1333-86-4	0.000221	5000	2754.92138672		
		<b>Encapsulation Total:</b>				<b>0.044151</b>	<b>1000000</b>	<b>550373.5</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000258	1000000	3216.15258789		
					<b>TOTAL MASS (g) :</b>	<b>0.08022</b>		