

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2852hs#trpbf

(Engineering Calculation)

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**TOTAL MASS (g) : 0.137396**

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	0.002330	1000000	16958.2265625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	348706.28125		
		Iron (Fe)	7439-89-6	0.001179	24000	8581.00878906		
		Phosphorus (P)	7723-14-0	0.000015	300	109.17313385		
		Zinc (Zn)	7440-66-6	0.000034	700	247.459106445		
		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>0.049139</b>	<b>1000000</b>	<b>357643.90625</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	18817.3554688		
		<b>External Plating Total:</b>				<b>0.002585</b>	<b>1000000</b>	<b>18817.3554688</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2860.33618164		
<b>Internal Plating Total:</b>				<b>0.000393</b>	<b>1000000</b>	<b>2860.33618164</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000764	750000	5560.55175781		
		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)		0.000255	250000	1855.9432373		
<b>Die Attach Total:</b>				<b>0.001019</b>	<b>1000000</b>	<b>7416.49462891</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010624	130000	77323.6875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067828	830000	493666.34375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002860	35000	20815.6757812		
		Carbon Black (C)	1333-86-4	0.000409	5000	2976.78759766		
		<b>Encapsulation Total:</b>				<b>0.081721</b>	<b>1000000</b>	<b>594782.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000209	1000000	1521.14575195		
					<b>TOTAL MASS (g) :</b>	<b>0.137396</b>		