

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2865hmse#trpbf

(Engineering Calculation)

MSOP-Exposed

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**TOTAL MASS (g) : 0.037578**

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	0.002591	1000000	68949.8671875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	368433.4375		
		Iron (Fe)	7439-89-6	0.000341	24000	9074.453125		
		Phosphorus (P)	7723-14-0	0.000004	300	106.44519043		
		Zinc (Zn)	7440-66-6	0.000010	700	266.112976074		
		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>0.014200</b>	<b>1000000</b>	<b>377880.4375</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	18894.6855469		
		<b>External Plating Total:</b>				<b>0.000710</b>	<b>1000000</b>	<b>18894.6855469</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2288.5715332		
<b>Internal Plating Total:</b>				<b>0.000086</b>	<b>1000000</b>	<b>2288.5715332</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000822	750000	21874.4863281		
		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)		0.000274	250000	7291.49511719		
<b>Die Attach Total:</b>				<b>0.001096</b>	<b>1000000</b>	<b>29165.9804688</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	64904.9570312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015571	830000	414364.53125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000657	35000	17483.6230469		
		Carbon Black (C)	1333-86-4	0.000094	5000	2501.4621582		
		<b>Encapsulation Total:</b>				<b>0.018761</b>	<b>1000000</b>	<b>499254.5625</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000134	1000000	3565.9140625		
					<b>TOTAL MASS (g) :</b>	<b>0.037578</b>		