

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1860CS8#TRPBF

(Engineering Calculation)

SOC

(printed on: 2014-01-20 01:16:58)

TOTAL MASS (g): 0.073661

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	0.002244	1000000	20463.9453125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	321106.8125		
		Iron (Fe)	7439-89-6	0.000582	24000	7901.07617188		
		Phosphorus (P)	7723-14-0	0.000007	300	95.030128479		
		Zinc (Zn)	7440-66-6	0.000017	700	230.787460327		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		<b>Lead Frame Total:</b>				<b>0.024259</b>	<b>1000000</b>	<b>329333.6875</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001477	1000000	20049.3457031		
<b>External Plating Total:</b>						<b>0.001477</b>	<b>1000000</b>	<b>20049.3457031</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000194	1000000	2633.69189453		
<b>Internal Plating Total:</b>						<b>0.000194</b>	<b>1000000</b>	<b>2633.69189453</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000748	750000	10154.647609		
		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)		0.000249	250000	3380.35742188		
		<b>Die Attach Total:</b>				<b>0.000997</b>	<b>1000000</b>	<b>13536.0058594</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006657	150000	90373.6484375
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.036392	820000	494048.0625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001110	25000	15009.0625		
Carbon Black (C)	1333-86-4			0.000222	5000	3013.81274414		
<b>Encapsulation Total:</b>						<b>0.044381</b>	<b>1000000</b>	<b>602504.625</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000109	1000000	1479.75476074		

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