

## LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3618EFE#TRPBF

(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2014-01-20 01:45:21)

TOTAL MASS (g): 0.095652

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	0.002563	1000000	37249.472652		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.030596	975000	319866.65625		
		Iron (Fe)	7439-89-6	0.000753	24000	7872.25732422		
		Phosphorus (P)	7723-14-0	0.000009	300	94.0907363892		
		Zinc (Zn)	7440-66-6	0.000022	700	226.999572754		
		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>0.031380</b>	<b>1000000</b>	<b>328063</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.002480	1000000	25930.921875		
<b>External Plating Total:</b>						<b>0.002480</b>	<b>1000000</b>	<b>25930.921875</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000866	1000000	8426.34765625		
<b>Internal Plating Total:</b>						<b>0.000866</b>	<b>1000000</b>	<b>8426.34765625</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001018	750000	10642.7060547		
		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)		0.000339	250000	3544.08398438		
		<b>Die Attach Total:</b>				<b>0.001357</b>	<b>1000000</b>	<b>14186.7910156</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.007460	135000	77990.765625
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.047524	860000	496840.90625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000276	5000	2885.44897461		
<b>Encapsulation Total:</b>						<b>0.055260</b>	<b>1000000</b>	<b>577717.0625</b>
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000806	1000000	8426.34765625

TOTAL MASS (g): 0.095652