

## LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2369IDE-18PBF

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

(printed on: 2014-01-20 02:43:20)

TOTAL MASS (g): 0.03143

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	0.001567	1000000	4987.1875
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	41782.21875
		Iron (Fe)	7439-89-6	0.00023	24000	10276.8798828
		Phosphorus (P)	7723-14-0	0.000004	300	127.267860413
		Zinc (Zn)	7440-66-6	0.000009	700	286.35269165
		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>0.013469</b>	<b>1000000</b>
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000626	1000000	19910.0644531
		<b>External Plating Total:</b>		<b>0.000626</b>	<b>1000000</b>	<b>19910.0644531</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000362	1000000	9608.7246938
		<b>Internal Plating Total:</b>		<b>0.000362</b>	<b>1000000</b>	<b>9608.7246938</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000777	750000	24721.7832011
		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)		0.00259	250000	8240.59472656
		<b>Die Attach Total:</b>		<b>0.001026</b>	<b>1000000</b>	<b>32962.379962</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001876
Bromine (Br)	40093-93-8			0.000000	0	0
Silica (SiO2)	60676-86-0			0.012410	860000	394848.5625
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0
Metal Hydroxide				0.000000	0	0
Carbon Black (C)	1333-86-4			0.000144	10000	4581.64306641
<b>Encapsulation Total:</b>				<b>0.014430</b>	<b>1000000</b>	<b>459118.84375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000000	0	0

TOTAL MASS (g):

0.031430