

### LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1389ACS8-1.25#TRPBF		(Engineering Calculation)		SOIC				
(printed on: 7/16/2011 12:32:16 PM)				TOTAL MASS (g):		0.07328685		
COMPONENT	VENDOR/	CONSTITUENT	CAS	CONSTITUENT	CONSTITUENT	CONSTITUENT		
MATERIAL	INDUSTRY NAMES	NAME	NUMBER	MASS (g)	(PPM) OF MATERIAL	(PPM) OF TOTAL PKG.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.001955	1000000	26676		
Die Coat	Dow Corning	Silicone	67762-90-7	8.10E-05	1000000	1105.246		
Lead Frame	A42	Copper (Cu)	7440-50-8	0	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	191999		
		Phosphorus (P)	7723-14-0	0	0	0		
		Zinc (Zn)	7440-66-6	0	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	139029		
		Silicon (Si)	7440-21-3	0	0	0		
		Magnesium (Mg)	7439-95-4	0	0	0		
		Tin (Sn)	7440-31-5	0	0	0		
<b>Lead Frame Total:</b>				<b>0.02426</b>	<b>1000000</b>	<b>331028</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0	0	0		
		Exter. Plating Sn	7440-31-5	0.001476852	1000000	20151.66		
		<b>External Plating Total:</b>				<b>0.001476852</b>	<b>1000000</b>	<b>20151.66</b>
		Inter. Plating Ni	7440-02-0	0	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2647.132		
		<b>Internal Plating Total:</b>				<b>0.000194</b>	<b>1000000</b>	<b>2647.132</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000684	750000	9333.188		
		Tin (Sn)	7440-31-5	0	0	0		
		Lead (Pb)	7439-92-1	0	0	0		
		Silica (SiO2)	60676-86-0	0	0	0		
		Metal Oxide		0	0	0		
		Antimony (Sb)	7440-36-0	0	0	0		
		Resin (EP)		0.000228	250000	3111.063		
<b>Die Attach Total:</b>				<b>0.000912</b>	<b>1000000</b>	<b>12444.25</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006633	150000	90507.37		
		Bromine (Br)	40039-93-8	0	0	0		
		Silica (SiO2)	60676-86-0	0.036263	820000	494809.1		
		Antimony	1309-64-4	0	0	0		
		Trioxide (Sb2O3)						
		Metal Hydroxid		0.001106	25000	15091.38		
		Carbon Black (C)	1333-86-4	0.000221	5000	3015.548		
<b>Encapsulation Total:</b>				<b>0.044223</b>	<b>1000000</b>	<b>603423.4</b>		
Bond Wire	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2524.327		
Estimated								
				<b>TOTAL MASS (g):</b>		<b>0.07328685</b>		