

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3080ET#31PBF

(Engineering Calculation)

TO-220

(printed on: 2014-01-20 02:25:47)

TOTAL MASS (g): 1.986175

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	0.001512	1000000	761.262884961		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.428754	998500	719349.375		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		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	0.002146	1500	1080.46862793		
		<b>Lead Frame Total:</b>			<b>1.430900</b>	<b>1000000</b>	<b>720429.8125</b>	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.011398	1000000	5738.80273438		
		<b>External Plating Total:</b>			<b>0.011398</b>	<b>1000000</b>	<b>5738.80273438</b>	
		Inter. Plating Ni	7440-02-0	0.010000	834028.375	5034.8022609		
		Inter. Plating Ag	7440-22-4	0.001990	165971.646625	1001.92565918		
		<b>Internal Plating Total:</b>			<b>0.011990</b>	<b>1000000</b>	<b>6036.7275396</b>	
Die Attach	95 Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000052	50000	26.1809711456		
		Lead (Pb)	7439-92-1	0.000979	950000	492.90713501		
		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)		0.000000	0	0		
		<b>Die Attach Total:</b>			<b>0.001031</b>	<b>1000000</b>	<b>519.088134766</b>	
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.054270	1030000	27323.8710938
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.471567	895000	237424.671875		
Antimony Trisulfide (Sb2S3)	1309-64-4			0.000000	0	0		
Metal Hydrosulfide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001054	2000	530.668212891		
<b>Encapsulation Total:</b>					<b>0.526891</b>	<b>1000000</b>	<b>265279.21875</b>	
Lead Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.000307	1000000	154.568435669		

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1.986175