

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1129IT#PBF

(Engineering Calculation)

TO-220

(printed on: 2014-01-19 21:47:59)

TOTAL MASS (g): 1.988315

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	0.002287	1000000	1451.9630223	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.428754	998500	718575.125	
		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	1079.30566406	
		<b>Lead Frame Total:</b>			<b>1.430900</b>	<b>1000000</b>	<b>719654.4375</b>
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.011398	1000000	5732.62548828	
		<b>External Plating Total:</b>			<b>0.011398</b>	<b>1000000</b>	<b>5732.62548828</b>
		Inter. Plating Ni	7440-02-0	0.010000	834028.375	5029.38330078	
		Inter. Plating Ag	7440-22-4	0.001990	165971.646625	1000.84729004	
		<b>Internal Plating Total:</b>			<b>0.011990</b>	<b>1000000</b>	<b>6030.23046675</b>
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000078	50000	39.2291870117	
		Lead (Pb)	7439-92-1	0.001478	950000	743.3428334473	
		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>0.001556</b>	<b>1000000</b>	<b>782.572021484</b>
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.054270	1030000
Bromine (Br)	40039-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.471567	895000	237169.109375	
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	530.096984863	
<b>Encapsulation Total:</b>					<b>0.526891</b>	<b>1000000</b>	<b>264993.65625</b>
Lead Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.000547	1000000	275.10723877	

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1.988315