

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

TO-220

LT1074IT#PBF

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TOTAL MASS (g): 1.994816

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	0.007784	1000000	3962.11370593		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	1.428754	998500	716233.375		
		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	1075.78833008		
		<b>Lead Frame Total:</b>				<b>1.430900</b>	<b>1000000</b>	<b>717309.125</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.011398	1000000	5713.94384766		
<b>External Plating Total:</b>						<b>0.011398</b>	<b>1000000</b>	<b>5713.94384766</b>
Inter. Plating Ni	7440-02-0			0.000000	834028.375	5012.99267578		
Inter. Plating Ag	7440-22-4			0.001960	165971.640625	997.58571289		
<b>Internal Plating Total:</b>						<b>0.011990</b>	<b>1000000</b>	<b>6018.57661328</b>
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000158	50000	79.205291748		
		Lead (Pb)	7439-92-1	0.003002	950000	1504.9005127		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Iridium (Ir)	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>0.003160</b>	<b>1000000</b>	<b>1584.10583496</b>
		Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.115916	220000	58108.609375
Bromine (Br)	40039-93-8			0.002269	10000	2641.34594727		
Silica (SiO2)	60676-86-0			0.339899	740000	195456.09375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.015807	30000	7924.03808594		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000000	0	0		
<b>Encapsulation Total:</b>				<b>0.536891</b>	<b>1000000</b>	<b>264130.09375</b>		
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000547	1000000	274.210603359		

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