

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

lt1491acs#pbf

(Engineering Calculation)

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(printed on: 2020-07-11 20:10:50)

**TOTAL MASS (g) : 0.132611**

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	0.001976	1000000	14900.6748047		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000082	1000000	618.347839355		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.025972	580000	195850.375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.018808	420000	141827.875		
		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>0.044780</b>	<b>1000000</b>	<b>337678.28125</b>		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	19496.3398438		
		<b>External Plating Total:</b>				<b>0.002585</b>	<b>1000000</b>	<b>19496.3398438</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000358	1000000	2699.61621094		
<b>Internal Plating Total:</b>				<b>0.000358</b>	<b>1000000</b>	<b>2699.61621094</b>		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000686	750000	5173.00732422		
		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)		0.000229	250000	1726.8494873		
<b>Die Attach Total:</b>				<b>0.000915</b>	<b>1000000</b>	<b>6899.85693359</b>		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010603	130000	79955.3984375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067696	830000	510483.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002855	35000	21529.0644531		
		Carbon Black (C)	1333-86-4	0.000408	5000	3076.65771484		
		<b>Encapsulation Total:</b>				<b>0.081562</b>	<b>1000000</b>	<b>615044.9375</b>
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000353	1000000	2661.91235352		
					<b>TOTAL MASS (g) :</b>	<b>0.132611</b>		