

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

FDP

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TOTAL MASS (g): 0.985173

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	0.802238	1000000	2771.6261719		
Die Coat	Dow Corning	Silicone	69430-27-9	0.800536	1000000	544.067016602		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.169128	580000	171673.4375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.122472	420000	12415.25		
		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>0.291600</b>	<b>1000000</b>	<b>295988.6875</b>
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.021727	1000000	22053.7578125		
		<b>External Plating Total:</b>				<b>0.021727</b>	<b>1000000</b>	<b>22053.7578125</b>
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002333	1000000	2368.11254883		
		<b>Internal Plating Total:</b>				<b>0.002333</b>	<b>1000000</b>	<b>2368.11254883</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000740	750000	751.137268066		
		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)		0.000247	250000	250.717422485		
		<b>Die Attach Total:</b>				<b>0.000987</b>	<b>1000000</b>	<b>1001.85467529</b>
		Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.119660	240000	162062.921875
				Bromine (Br)	40039-03-8	0.006653	10000	6753.1298281
Silica (SiO2)	60676-86-0			0.478951	720000	486189.8125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.019958	30000	20258.3769531		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000000	0	0		
<b>Encapsulation Total:</b>						<b>0.665252</b>	<b>1000000</b>	<b>675244.25</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000500	1000000	507.525177002		

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