

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SSOP

LTC4218IGN#PBF

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TOTAL MASS (g): 0.080848

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	0.002234	1000000	27632.8742188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	370237.625		
		Iron (Fe)	7439-89-6	0.000737	24000	915.86328125		
		Phosphorus (P)	7723-14-0	0.000009	300	1113.9908142		
		Zinc (Zn)	7440-66-6	0.000021	700	259.746459961		
		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	0.000000	0	0		
		<b>Lead Frame Total:</b>				<b>0.030700</b>	<b>1000000</b>	<b>379724.5625</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.002272	1000000	28103.0839844		
<b>External Plating Total:</b>						<b>0.002272</b>	<b>1000000</b>	<b>28103.0839844</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000246	1000000	3842.74414062		
<b>Internal Plating Total:</b>						<b>0.000246</b>	<b>1000000</b>	<b>3842.74414062</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000740	750000	9152.96972656		
		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	3055.11279297		
		<b>Die Attach Total:</b>				<b>0.000987</b>	<b>1000000</b>	<b>12206.0820312</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006623	150000	81919.078125
				Bromine (Br)	40039-09-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.036203	820000	447790.5		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001104	25000	13655.2412109		
Carbon Black (C)	1333-86-4			0.000221	5000	2733.5222168		
<b>Encapsulation Total:</b>						<b>0.044151</b>	<b>1000000</b>	<b>546098.375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000258	1000000	3191.17041016		

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