

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SOC

LTC8043ES8#PBF

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TOTAL MASS (g): 0.074894

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	0.002153	1000000	42099.5820312		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	315820.3125		
		Iron (Fe)	7439-89-6	0.000582	24000	7770.99853516		
		Phosphorus (P)	7723-14-0	0.000007	300	93.4656143188		
		Zinc (Zn)	7440-66-6	0.000017	700	226.987915039		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		<b>Lead Frame Total:</b>				<b>0.024259</b>	<b>1000000</b>	<b>323911.75</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001477	1000000	19719.2675781		
<b>External Plating Total:</b>						<b>0.001477</b>	<b>1000000</b>	<b>19719.2675781</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000194	1000000	2590.33276367		
<b>Internal Plating Total:</b>						<b>0.000194</b>	<b>1000000</b>	<b>2590.33276367</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000934	750000	12470.9833984		
		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)		0.000111	250000	4152.54394531		
		<b>Die Attach Total:</b>				<b>0.001245</b>	<b>1000000</b>	<b>16623.5273438</b>
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.006657	150000	88885.796875
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.036392	820000	485914.34375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001110	25000	14820.9755839		
Carbon Black (C)	1333-86-4			0.000222	5000	2964.19506836		
<b>Encapsulation Total:</b>						<b>0.044381</b>	<b>1000000</b>	<b>592585.3125</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000185	1000000	2470.1629766		

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