

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1640ALISS#PBF

(Engineering Calculation)

SOC

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TOTAL MASS (g): 0.074581

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	0.00290	1000000	40130.565125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000125	1000000	1676.03356934		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	188667.734375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	13616.84375		
		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>0.024260</b>	<b>1000000</b>	<b>325284.5625</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001477	1000000	19802.0273438		
<b>External Plating Total:</b>						<b>0.001477</b>	<b>1000000</b>	<b>19802.0273438</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000194	1000000	2601.20385742		
<b>Internal Plating Total:</b>						<b>0.000194</b>	<b>1000000</b>	<b>2601.20385742</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000905	750000	12134.4833984		
		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)		0.000102	250000	4049.296875		
		<b>Die Attach Total:</b>				<b>0.001297</b>	<b>1000000</b>	<b>16183.7782203</b>
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.006621	150000	88776.140625
				Bromine (Br)	40079-09-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.036195	820000	48512.25		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001103	25000	14789.319339		
Carbon Black (C)	1333-86-4			0.000221	5000	2963.22729492		
<b>Encapsulation Total:</b>						<b>0.044140</b>	<b>1000000</b>	<b>591840.9375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000185	1000000	2480.52954102		

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