

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1963AEQ#PBF

(Engineering Calculation)

DOPAK

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TOTAL MASS (g): 1.398345

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	0.002006	1000000	2145.0838789	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.852419	998500	609591.3125	
		Iron (Fe)	7439-89-6	0.000000	0	0	
		Phosphorus (P)	7723-14-0	0.000000	0	0	
		Zinc (Zn)	7440-66-6	0.000000	0	0	
		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	0.001281	1500	916.082885742	
		<b>Lead Frame Total:</b>			<b>0.853700</b>	<b>1000000</b>	<b>610607.375</b>
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.009978	1000000	7135.73339844	
		<b>External Plating Total:</b>			<b>0.009978</b>	<b>1000000</b>	<b>7135.73339844</b>
		Inter. Plating Ni	7440-02-0	0.004000	740740.75	2860.52416992	
		Inter. Plating Ag	7440-22-4	0.001400	259259.265625	1001.18341064	
		<b>Internal Plating Total:</b>			<b>0.005400</b>	<b>1000000</b>	<b>3861.70751953</b>
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000080	50000	57.210483351	
		Lead (Pb)	7439-92-1	0.001512	950000	1081.27807617	
		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)		0.000000	0	0	
		<b>Die Attach Total:</b>			<b>0.001592</b>	<b>1000000</b>	<b>1138.08864746</b>
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.531704	1030000
Bromine (Br)	40039-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.466653	895000	333718.03125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.001043	2000	745.881713867	
<b>Encapsulation Total:</b>					<b>0.521400</b>	<b>1000000</b>	<b>372809.3125</b>
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.001988	1000000	1421.68054199	

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