

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3612IFE#PBF

(Engineering Calculation)

TSSOP Exp. Pad

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TOTAL MASS (g): 0.071064

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	0.001914	1000000	26933.34375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024424	975000	343688.5625		
		Iron (Fe)	7439-89-6	0.000601	24000	8457.12597656		
		Phosphorus (P)	7723-14-0	0.000008	300	112.574058533		
		Zinc (Zn)	7440-66-6	0.000018	700	253.291625977		
		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>0.025051</b>	<b>1000000</b>	<b>352511.59375</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001770	1000000	2491.6286719		
<b>External Plating Total:</b>						<b>0.001770</b>	<b>1000000</b>	<b>2491.6286719</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000683	1000000	9611.01074219		
<b>Internal Plating Total:</b>						<b>0.000683</b>	<b>1000000</b>	<b>9611.01074219</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000686	750000	9653.22558594		
		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)		0.000229	250000	3222.4327308		
		<b>Die Attach Total:</b>				<b>0.000915</b>	<b>1000000</b>	<b>12875.6572266</b>
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.000615	150000	84641.6171875
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.032882	820000	462707.5625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001003	25000	14113.9716797		
Carbon Black (C)	1333-86-4			0.000201	5000	2828.4230957		
<b>Encapsulation Total:</b>						<b>0.04101</b>	<b>1000000</b>	<b>564291.5625</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000630	1000000	8665.20703125		

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