

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3890EUH-2#TRPBF (Engineering Calculation) QFN 5mm X 5mm Exp. Pad

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TOTAL MASS (g): 0.063518

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	0.001293	1000000	21930.695325		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.028382	975000	446832		
		Iron (Fe)	7439-89-6	0.000699	24000	11004.7070312		
		Phosphorus (P)	7723-14-0	0.000009	300	141.691497803		
		Zinc (Zn)	7440-66-6	0.000020	700	314.8699646		
		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>0.029110</b>	<b>1000000</b>	<b>45820.25</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001398	1000000	22013.7558594		
<b>External Plating Total:</b>						<b>0.001398</b>	<b>1000000</b>	<b>22013.7558594</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000635	1000000	9997.12207031		
<b>Internal Plating Total:</b>						<b>0.000635</b>	<b>1000000</b>	<b>9997.12207031</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000709	750000	11162.1416016		
		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)		0.000236	250000	3715.46606445		
		<b>Die Attach Total:</b>				<b>0.000945</b>	<b>1000000</b>	<b>14877.6074219</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.003888	130000	6120.7304688
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.025723	860000	404970.03125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000299	10000	4707.30664062		
<b>Encapsulation Total:</b>						<b>0.029910</b>	<b>1000000</b>	<b>470888.09375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000127	1000000	1999.42456085		

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