

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4218IDHC-12#TRPBF (Engineering Calculation) DFN 5mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.038748

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	0.001489	1000000	28427.7929688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017069	974800.0625	440513.0625		
		Iron (Fe)	7439-89-6	0.000411	23500	10606.9990234		
		Phosphorus (P)	7723-14-0	0.000015	850	387.116729736		
		Zinc (Zn)	7440-66-6	0.000015	850	387.116729736		
		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	0.000000	0	0		
		<b>Lead Frame Total:</b>				<b>0.017510</b>	<b>1000000</b>	<b>451894.3125</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000817	1000000	21085.0136719		
<b>External Plating Total:</b>						<b>0.000817</b>	<b>1000000</b>	<b>21085.0136719</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000381	1000000	10096.84375		
<b>Internal Plating Total:</b>						<b>0.000381</b>	<b>1000000</b>	<b>10096.84375</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000740	750000	19097.7597656		
		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)		0.000247	250000	674.52197266		
		<b>Die Attach Total:</b>				<b>0.000987</b>	<b>1000000</b>	<b>25472.28125</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.002274	130000	58686.9023438
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.015041	860000	388174.90625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000175	10000	4516.36230469		
<b>Encapsulation Total:</b>						<b>0.017490</b>	<b>1000000</b>	<b>451378.125</b>
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000064	1000000	1651.69812012

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