

## LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC5532EDC#TRPBF

(Engineering Calculation)

DFN 2mm X 2mm Exp. Pad

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TOTAL MASS (g): 0.009163

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	0.000223	1000000	35249.214838		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.002935	975000	320298.59375		
		Iron (Fe)	7439-89-6	0.000072	24000	7857.41015625		
		Phosphorus (P)	7723-14-0	0.000001	300	109.130699158		
		Zinc (Zn)	7440-66-6	0.000002	700	218.261398315		
		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>0.003010</b>	<b>1000000</b>	<b>328483.40625</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000136	1000000	14877.2207031		
<b>External Plating Total:</b>						<b>0.000136</b>	<b>1000000</b>	<b>14877.2207031</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000072	1000000	7857.41015625		
<b>Internal Plating Total:</b>						<b>0.000072</b>	<b>1000000</b>	<b>7857.41015625</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000291	750000	31757.03151562		
		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)		0.000097	250000	10585.6767578		
		<b>Die Attach Total:</b>				<b>0.000288</b>	<b>1000000</b>	<b>42342.7070312</b>
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.000677	130000	73881.4765625
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.004481	860000	489014.625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000052	10000	5674.79638672		
<b>Encapsulation Total:</b>						<b>0.005210</b>	<b>1000000</b>	<b>56870.9375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000024	1000000	2619.13671875		

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