

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3612EUDC#PBF

(Engineering Calculation)

QFN 3mm X 4mm Exp. Pad

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TOTAL MASS (g): 0.160462

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	0.001276	1000000	7952.65029297		
Die Coat	Dow Corning	Silicone	69130-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	81845.0390625		
		Iron (Fe)	7439-89-6	0.000323	24000	2012.94030762		
		Phosphorus (P)	7723-14-0	0.000004	300	24.9280567169		
		Zinc (Zn)	7440-66-6	0.000009	700	56.6881271362		
		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>0.013469</b>	<b>1000000</b>	<b>83939</b>	
Plating	PMI	Enter. Plating Pb	7439-92-1	0.000000	0	0		
		Enter. Plating Sn	7440-31-5	0.000626	1000000	389.79956055		
			<b>External Plating Total:</b>		<b>0.000626</b>	<b>1000000</b>	<b>389.79956055</b>	
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	1882.0682373		
			<b>Internal Plating Total:</b>		<b>0.000302</b>	<b>1000000</b>	<b>1882.0682373</b>	
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000008	50000	49.8561134338		
		Iridium (Ir)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000046	300000	266.672637939		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000099	650000	616.969360352		
			<b>Die Attach Total:</b>		<b>0.000153</b>	<b>1000000</b>	<b>953.498168945</b>	
		Encapsulation	MULTIAROMATIC RESIN B/SB-FREE	Resin (EP)		0.018759	130000	116906.14375
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.124098	860000	773380.5		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001443	10000	8992.796875		
	<b>Encapsulation Total:</b>		<b>0.144300</b>	<b>1000000</b>	<b>899279.625</b>			
Bond Wire Estimated	APW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000356	1000000	2093.95678711		

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