

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4226UD-1#TRPBF

(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

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TOTAL MASS (g): 0.023468

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	0.001172	1000000	49940.8515625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.008752	975000	372937.15625		
		Iron (Fe)	7439-89-6	0.000215	24000	9161.50488281		
		Phosphorus (P)	7723-14-0	0.000003	300	127.834953308		
		Zinc (Zn)	7440-66-6	0.000006	700	255.669906616		
		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		
		Lead Frame Total:				0.008976	1000000	382482.1875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000413	1000000	17588.4375		
		External Plating Total:				0.000413	1000000	17588.4375
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000203	1000000	8650.16503906		
		Internal Plating Total:				0.000203	1000000	8650.16503906
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000630	750000	2845.3198438		
		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)		0.000210	250000	8948.44629806		
		Die Attach Total:				0.000840	1000000	35793.7851562
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001534	130000	65366.2773438
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.010148	860000	432423.03125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000118	10000	5028.17480469		
Encapsulation Total:						0.011800	1000000	502817.5
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000064	1000000	2727.14509781		

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