

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC22591UJ-14#PBF

(Engineering Calculation)

QFN 6mm X 6mm Exp. Pad

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TOTAL MASS (g): 0.102608

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	0.001537	1000000	14979.2664453		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.043661	975000	42511.125		
		Iron (Fe)	7439-89-6	0.001075	24000	10476.7792969		
		Phosphorus (P)	7723-14-0	0.000013	300	126.695910481		
		Zinc (Zn)	7440-66-6	0.000031	700	302.121032715		
		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		
		Lead Frame Total:				0.044780	1000000	436418.75
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.004194	1000000	40872.8984375		
External Plating Total:						0.004194	1000000	40872.8984375
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000108	1000000	1052.55078125		
Internal Plating Total:						0.000108	1000000	1052.55078125
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000755	750000	7358.109375		
		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)		0.000252	250000	2455.9519043		
		Die Attach Total:				0.001007	1000000	9814.06152344
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006540	130000	6377.7929688
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.043267	860000	421673.3125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000503	10000	4902.15722656		
Encapsulation Total:						0.050310	1000000	490313.21875
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000672	1000000	6549.20458984		

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