

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3520EUF#PBF

(Engineering Calculation)

QFN 4mm X 4mm Exp. Pad

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TOTAL MASS (g): 0.041479

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	0.002246	1000000	5659.4101562		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.015961	975000	384801.71875		
		Iron (Fe)	7439-89-6	0.000393	24000	9474.78613281		
		Phosphorus (P)	7723-14-0	0.000005	300	120.5443573		
		Zinc (Zn)	7440-66-6	0.000011	700	265.197601318		
		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:				0.016370	1000000	394662.21875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000773	1000000	18624.2753906		
External Plating Total:						0.000773	1000000	18624.2753906
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000362	1000000	8727.41210938		
Internal Plating Total:						0.000362	1000000	8727.41210938
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001010	750000	24349.9589844		
		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)		0.000337	250000	8124.68945312		
		Die Attach Total:				0.001347	1000000	32474.6524208
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.002616	130000	63068.8085938
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.017303	860000	417155.78125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000201	10000	4845.88330078		
Encapsulation Total:						0.020120	1000000	485078.5
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000161	1000000	3881.52856445		

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0.041479