

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1412ig#pbf

(Engineering Calculation)

SSOP

(printed on: 2020-07-11 18:28:42)

TOTAL MASS (g) : 0.232078

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	0.003763	1000000	16214.3798828		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.122431	975000	527542.5625		
		Iron (Fe)	7439-89-6	0.003014	24000	12987.015625		
		Phosphorus (P)	7723-14-0	0.000038	300	163.738098145		
		Zinc (Zn)	7440-66-6	0.000088	700	379.182952881		
		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:				0.125571	1000000	541072.5625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003749	1000000	16153.7617188		
		External Plating Total:				0.003749	1000000	16153.7617188
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001005	1000000	4330.44189453		
Internal Plating Total:				0.001005	1000000	4330.44189453		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001079	750000	4649.30029297		
		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)		0.000360	250000	1551.203125		
Die Attach Total:				0.001439	1000000	6200.50292969		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.009848	103000	42434.0195312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.085571	895000	368716.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000191	2000	822.999328613		
		Encapsulation Total:				0.095610	1000000	411973.65625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000941	1000000	4054.67260742		
					TOTAL MASS (g) :	0.232078		