

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc4416ims#pbf

(Engineering Calculation)

MSOP

(printed on: 2020-07-11 18:36:23)

TOTAL MASS (g) : 0.027366

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	0.002049	1000000	74873.8671875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	381239.125		
		Iron (Fe)	7439-89-6	0.000257	24000	9391.20703125		
		Phosphorus (P)	7723-14-0	0.000003	300	109.624984741		
		Zinc (Zn)	7440-66-6	0.000007	700	255.791610718		
		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:				0.010700	1000000	390995.78125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25945.4902344		
		External Plating Total:				0.000710	1000000	25945.4902344
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3142.58276367		
Internal Plating Total:				0.000086	1000000	3142.58276367		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000712	750000	26017.6621094		
		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)		0.000237	250000	8660.37304688		
Die Attach Total:				0.000949	1000000	34678.0351562		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001314	103000	48015.7382812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.011420	895000	417305.78125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000026	2000	950.083129883		
		Encapsulation Total:				0.012760	1000000	466271.59375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000112	1000000	4092.66577148		
					TOTAL MASS (g) :	0.027366		