

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1996ims#pbf		(Engineering Calculation)				MSOP
(printed on: 2020-07-11 20:22:24)					TOTAL MASS (g) : 0.027792	
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	0.002387	1000000	85887.9453125
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	375395.4375
		Iron (Fe)	7439-89-6	0.000257	24000	9247.2578125
		Phosphorus (P)	7723-14-0	0.000003	300	107.944641113
		Zinc (Zn)	7440-66-6	0.000007	700	251.870803833
		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	385002.5625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25547.7949219
		External Plating Total:		0.000710	1000000	25547.7949219
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3094.4128418
		Internal Plating Total:		0.000086	1000000	3094.4128418
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	27993.6425781
		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)		0.000259	250000	9319.21972656
		Die Attach Total:		0.001037	1000000	37312.8632812
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001314	103000	47279.75
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.011420	895000	410909.25
		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	935.520141602
		Encapsulation Total:		0.012760	1000000	459124.5
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000112	1000000	4029.93286133
					TOTAL MASS (g) :	0.027792