

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1706ems-63#pbf

(Engineering Calculation)

MSOP

(printed on: 2020-07-11 21:43:19)

TOTAL MASS (g) : 0.02659

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	0.001458	1000000	54832.59375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	392365.15625		
		Iron (Fe)	7439-89-6	0.000257	24000	9665.27832031		
		Phosphorus (P)	7723-14-0	0.000003	300	112.824264526		
		Zinc (Zn)	7440-66-6	0.000007	700	263.256622314		
		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	402406.53125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26702.6816406		
		External Plating Total:				0.000710	1000000	26702.6816406
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3234.2956543		
Internal Plating Total:				0.000086	1000000	3234.2956543		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000572	750000	21511.8261719		
		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)		0.000191	250000	7183.14501953		
Die Attach Total:				0.000763	1000000	28694.9707031		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	62391.8164062		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010591	830000	398307.25		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000447	35000	16810.8164062		
		Carbon Black (C)	1333-86-4	0.000064	5000	2406.91748047		
		Encapsulation Total:				0.012761	1000000	479916.78125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000112	1000000	4212.10595703		
					TOTAL MASS (g) :	0.02659		