LINEAR TECHNOLOGY MATERIALS DECLARATION

lt3089ife#pbf **(Engineering Calculation)** **TSSOP Exp. Pad**

(printed on: 2020-07-11 20:27:57) **TOTAL MASS (g): 0.065942**

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	**0.002863**	**1000000**	**43417.0039062**
Die Coat	Dow Corning	Silicone	69430-27-9	**0.000000**	**0**	**0**
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.025576	975000	387856.5
		Iron (Fe)	7439-89-6	0.000630	24000	9553.86328125
		Phosphorus (P)	7723-14-0	0.000008	300	121.318901062
		Zinc (Zn)	7440-66-6	0.000018	700	272.967529297
		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:		**0.026232**	**1000000**	**397804.71875**
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.002364	1000000	35848.3671875
		External Plating Total:		**0.002364**	**1000000**	**35848.3671875**
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001030	1000000	15619.8095703
		Internal Plating Total:		**0.001030**	**1000000**	**15619.8095703**
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000422	820000	6399.57226562
		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)		0.000093	180000	1410.33227539
		Die Attach Total:		**0.000515**	**1000000**	**7809.90478516**
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004875	150000	73928.703125
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.026650	820000	404143.59375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000813	25000	12329.0332031
		Carbon Black (C)	1333-86-4	0.000163	5000	2471.87280273
		Encapsulation Total:		**0.032501**	**1000000**	**492873.21875**
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	**0.000437**	**1000000**	**6627.04492188**
					TOTAL MASS (g):	**0.065942**