

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1819ims8#pbf			(Engineering Calculation)			MSOP	
(printed on: 2020-07-11 20:19:12)					TOTAL MASS (g) :		0.025819
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	0.000917	1000000	35516.4453125	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	404081.84375	
		Iron (Fe)	7439-89-6	0.000257	24000	9953.90039062	
		Phosphorus (P)	7723-14-0	0.000003	300	116.193389893	
		Zinc (Zn)	7440-66-6	0.000007	700	271.117889404	
		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	414423.09375	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000710	1000000	27500.0664062	
		External Plating Total:		0.000710	1000000	27500.0664062	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3330.87695312	
		Internal Plating Total:		0.000086	1000000	3330.87695312	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000417	750000	16150.8808594	
		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)		0.000139	250000	5383.62646484	
		Die Attach Total:		0.000556	1000000	21534.5058594	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	64254.9414062	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.010591	830000	410201.40625	
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0	
		Metal Hydroxide		0.000447	35000	17312.8144531	
		Carbon Black (C)	1333-86-4	0.000064	5000	2478.79199219	
		Encapsulation Total:		0.012761	1000000	494247.90625	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3447.07055664	
					TOTAL MASS (g) :		0.025819