

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2990cms#trpbf			(Engineering Calculation)			MSOP	
(printed on: 2020-07-11 17:08:19)					TOTAL MASS (g) :		0.027737
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	0.002339	1000000	84327.71875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	376139.8125	
		Iron (Fe)	7439-89-6	0.000257	24000	9265.59375	
		Phosphorus (P)	7723-14-0	0.000003	300	108.158683777	
		Zinc (Zn)	7440-66-6	0.000007	700	252.370254517	
		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	385765.96875	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25598.453125	
		External Plating Total:		0.000710	1000000	25598.453125	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3100.54882812	
		Internal Plating Total:		0.000086	1000000	3100.54882812	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000772	750000	27832.8339844	
		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)		0.000257	250000	9265.59375	
		Die Attach Total:		0.001029	1000000	37098.4257812	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	59811.75	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.010591	830000	381836.21875	
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0	
		Metal Hydroxide		0.000447	35000	16115.6435547	
		Carbon Black (C)	1333-86-4	0.000064	5000	2307.38525391	
		Encapsulation Total:		0.012761	1000000	460070.96875	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000112	1000000	4037.92407227	
					TOTAL MASS (g) :		0.027737