

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t6011ims8#trpbf				(Engineering Calculation)		MSOP	
(printed on: 2020-07-11 19:23:03)					TOTAL MASS (g) :		0.02777
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	85955.9921875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0	
		Iron (Fe)	7439-89-6	0.006206	580000	223478.375	
		Phosphorus (P)	7723-14-0	0.000000	0	0	
		Zinc (Zn)	7440-66-6	0.000000	0	0	
		Nickel (Ni)	7440-02-0	0.004494	420000	161829.171875	
		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	385307.5625	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25568.0351562	
		External Plating Total:		0.000710	1000000	25568.0351562	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3096.86425781	
		Internal Plating Total:		0.000086	1000000	3096.86425781	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	28015.8183594	
		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	9326.60253906	
		Die Attach Total:		0.001037	1000000	37342.421875	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	59740.671875	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.010591	830000	381382.4375	
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0	
		Metal Hydroxide		0.000447	35000	16096.4912109	
		Carbon Black (C)	1333-86-4	0.000064	5000	2304.64306641	
		Encapsulation Total:		0.012761	1000000	459524.21875	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3204.89453125	
					TOTAL MASS (g) :	0.02777	