

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1962ems8-3.3#trpbf

(Engineering Calculation)

MSOP

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TOTAL MASS (g) : 0.027416

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	0.002069	1000000	75466.8046875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	380543.8125		
		Iron (Fe)	7439-89-6	0.000257	24000	9374.07910156		
		Phosphorus (P)	7723-14-0	0.000003	300	109.425056458		
		Zinc (Zn)	7440-66-6	0.000007	700	255.32510376		
		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	390282.6875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25898.171875		
		External Plating Total:				0.000710	1000000	25898.171875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3136.85131836		
Internal Plating Total:				0.000086	1000000	3136.85131836		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000704	750000	25678.4101562		
		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)		0.000235	250000	8571.62890625		
Die Attach Total:				0.000939	1000000	34250.0390625		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	60512.0507812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010591	830000	386306.90625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000447	35000	16304.3330078		
		Carbon Black (C)	1333-86-4	0.000064	5000	2334.40112305		
		Encapsulation Total:				0.012761	1000000	465457.6875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000151	1000000	5507.72753906		
					TOTAL MASS (g) :	0.027416		