

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

MSOP

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TOTAL MASS (g) : 0.027294

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	0.002757	1000000	101011.109375
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	382244.78125
		Iron (Fe)	7439-89-6	0.000257	24000	9415.97949219
		Phosphorus (P)	7723-14-0	0.000003	300	109.914169312
		Zinc (Zn)	7440-66-6	0.000007	700	256.466400146
		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	392027.1875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26013.9335938
		External Plating Total:		0.000710	1000000	26013.9335938
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3150.87255859
		Internal Plating Total:		0.000086	1000000	3150.87255859
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0
		Tin (Sn)	7440-31-5	0.000000	0	0
		Lead (Pb)	7439-92-1	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.000010	50000	366.380523682
		Indium (In)	7440-74-6	0.000000	0	0
		Metal Oxide		0.000057	300000	2088.36914062
		Antimony (Sb)	7440-36-0	0.000000	0	0
		Resin (EP)		0.000124	650000	4543.11865234
		Die Attach Total:		0.000191	1000000	6997.86816406
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	60782.53125
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.010591	830000	388033.625
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000447	35000	16377.2109375
		Carbon Black (C)	1333-86-4	0.000064	5000	2344.83520508
		Encapsulation Total:		0.012761	1000000	467538.1875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3260.78686523
					TOTAL MASS (g) :	0.027294