

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

MSOP with 4 PINS REMOVED

(printed on: 2020-07-11 16:19:34)

TOTAL MASS (g) : 0.038133

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	0.003937	1000000	103243.84375
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	363071.125
		Iron (Fe)	7439-89-6	0.000355	25000	9309.515625
		Phosphorus (P)	7723-14-0	0.000004	300	104.895950317
		Zinc (Zn)	7440-66-6	0.000010	700	262.239868164
		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:		0.014214	1001000	372747.75
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	18619.6855469
		External Plating Total:		0.000710	1000000	18619.6855469
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2255.26293945
		Internal Plating Total:		0.000086	1000000	2255.26293945
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	0.000012	50000	314.687866211
		Indium (In)	7440-74-6	0.000000	0	0
		Metal Oxide		0.000074	300000	1940.57519531
		Antimony (Sb)	7440-36-0	0.000000	0	0
		Resin (EP)		0.000161	650000	4222.0625
		Die Attach Total:		0.000247	1000000	6477.32470703
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001932	103000	50664.7460938
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.016790	895000	440300.78125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000038	2000	996.511535645
		Encapsulation Total:		0.018760	1000000	491962.03125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000179	1000000	4694.09375
					TOTAL MASS (g) :	0.038133