

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

(printed on: 2020-07-11 17:26:13)

TOTAL MASS (g) : 0.499762

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	0.002860	1000000	5722.72070312
Die Coat	Dow Corning	Silicone	69430-27-9	0.000160	1000000	320.152191162
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0
		Iron (Fe)	7439-89-6	0.089088	580000	178260.765625
		Phosphorus (P)	7723-14-0	0.000000	0	0
		Zinc (Zn)	7440-66-6	0.000000	0	0
		Nickel (Ni)	7440-02-0	0.064512	420000	129085.375
		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:		0.153600	1000000	307346.125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24832.3886719
		External Plating Total:		0.012410	1000000	24832.3886719
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2457.16845703
		Internal Plating Total:		0.001228	1000000	2457.16845703
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000873	750000	1746.83056641
		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)		0.000291	250000	582.276855469
		Die Attach Total:		0.001164	1000000	2329.10742188
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078761	240000	157596.9375
		Bromine (Br)	40039-93-8	0.003282	10000	6567.12255859
		Silica (SiO2)	60676-86-0	0.236283	720000	472790.8125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009845	30000	19699.3671875
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000000	0	0
		Encapsulation Total:		0.328171	1000000	656654.25
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	338.160797119
					TOTAL MASS (g) :	0.499762