

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.499993

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	0.002896	1000000	5792.07763672
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	299524
		Iron (Fe)	7439-89-6	0.003686	24000	7372.09863281
		Phosphorus (P)	7723-14-0	0.000046	300	92.0012359619
		Zinc (Zn)	7440-66-6	0.000108	700	216.00289917
		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:		0.153600	1000000	307204.125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24820.9140625
		External Plating Total:		0.012410	1000000	24820.9140625
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2456.03295898
		Internal Plating Total:		0.001228	1000000	2456.03295898
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000880	750000	1760.02368164
		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)		0.000293	250000	586.0078125
		Die Attach Total:		0.001173	1000000	2346.03125
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078816	240000	157634.109375
		Bromine (Br)	40039-93-8	0.003284	10000	6568.08837891
		Silica (SiO2)	60676-86-0	0.236448	720000	472902.34375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009852	30000	19704.2636719
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000000	0	0
		Encapsulation Total:		0.328400	1000000	656808.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000286	1000000	572.00769043
					TOTAL MASS (g) :	0.499993