

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.498311

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	0.001817	1000000	3646.31518555		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000435	1000000	872.948303223		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.149760	975000	300535.03125		
		Iron (Fe)	7439-89-6	0.003686	24000	7396.98242188		
		Phosphorus (P)	7723-14-0	0.000046	300	92.3117752075		
		Zinc (Zn)	7440-66-6	0.000108	700	216.732009888		
		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	308241.0625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24904.6953125		
		External Plating Total:				0.012410	1000000	24904.6953125
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2464.32299805		
Internal Plating Total:				0.001228	1000000	2464.32299805		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000644	750000	1292.36486816		
		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)		0.000215	250000	431.457214355		
Die Attach Total:				0.000859	1000000	1723.82214355		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.078670	240000	157873.21875		
		Bromine (Br)	40039-93-8	0.003278	10000	6578.21777344		
		Silica (SiO2)	60676-86-0	0.236011	720000	473621.625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.009834	30000	19734.6523438		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.327793	1000000	657807.6875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000169	1000000	339.145446777		
					TOTAL MASS (g) :	0.498311		