

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1639in#pbf

(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.985477

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	0.002348	1000000	2382.60302734		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000131	1000000	132.93057251		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.169128	580000	171620.46875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.122472	420000	124276.898438		
		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:				0.291600	1000000	295897.375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.021727	1000000	22046.9550781		
		External Plating Total:				0.021727	1000000	22046.9550781
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.002333	1000000	2367.38183594		
Internal Plating Total:				0.002333	1000000	2367.38183594		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000770	750000	781.34765625		
		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)		0.000257	250000	260.787506104		
Die Attach Total:				0.001027	1000000	1042.13513184		
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.159795	240000	162149.9375		
		Bromine (Br)	40039-93-8	0.006658	10000	6756.12060547		
		Silica (SiO2)	60676-86-0	0.479384	720000	486448.78125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.019974	30000	20268.3613281		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000000	0	0		
		Encapsulation Total:				0.665811	1000000	675623.25
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000500	1000000	507.368652344		
					TOTAL MASS (g) :	0.985477		