

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOIC Exposed Pad

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TOTAL MASS (g) : 0.074928

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	0.002750	1000000	36701.9492188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023398	964450	312273.53125		
		Iron (Fe)	7439-89-6	0.000547	22560	7300.35058594		
		Phosphorus (P)	7723-14-0	0.000006	240	80.0769805908		
		Zinc (Zn)	7440-66-6	0.000030	1250	400.384857178		
		Nickel (Ni)	7440-02-0	0.000279	11500	3723.5793457		
		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:				0.024260	1000000	323777.90625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001920	1000000	25623.4003906		
		External Plating Total:				0.001920	1000000	25623.4003906
		Inter. Plating Ni	7440-02-0	0.000300	1000000	4003.84887695		
		Inter. Plating Ag	7440-22-4	0.000000	0	0		
		Internal Plating Total:				0.000300	1000000	4003.84887695
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000850	750000	11344.2382812		
		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)		0.000283	250000	3776.96411133		
Die Attach Total:				0.001133	1000000	15121.203125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004571	103000	61005.3125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.039720	895000	530109.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000089	2000	1187.80847168		
		Encapsulation Total:				0.044380	1000000	592302.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2469.04003906		
					TOTAL MASS (g) :	0.074928		