

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOIC Exposed Pad

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TOTAL MASS (g) : 0.075893

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	0.004650	1000000	61270.546875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023398	964450	308302.84375		
		Iron (Fe)	7439-89-6	0.000547	22560	7207.52392578		
		Phosphorus (P)	7723-14-0	0.000006	240	79.0587692261		
		Zinc (Zn)	7440-66-6	0.000030	1250	395.29385376		
		Nickel (Ni)	7440-02-0	0.000279	11500	3676.23266602		
		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	319660.9375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001920	1000000	25297.5898438		
		External Plating Total:				0.001920	1000000	25297.5898438
		Inter. Plating Ni	7440-02-0	0.000300	1000000	3952.93847656		
		Inter. Plating Ag	7440-22-4	0.000000	0	0		
		Internal Plating Total:				0.000300	1000000	3952.93847656
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000014	50000	184.470474243		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000082	300000	1080.46984863		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000178	650000	2345.41015625		
Die Attach Total:				0.000274	1000000	3610.35009766		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004571	103000	60229.6054688		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.039720	895000	523369		
		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	1172.70507812		
		Encapsulation Total:				0.044380	1000000	584771.375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1436.234375		
					TOTAL MASS (g) :	0.075893		