

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT8302ES8E#TRPBF

(Engineering Calculation)

SOIC Exposed Pad

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TOTAL MASS (g) : 0.074439

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	0.002338	1000000	31408.3066406		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023398	964450	314324.875		
		Iron (Fe)	7439-89-6	0.000547	22560	7348.30761719		
		Phosphorus (P)	7723-14-0	0.000006	240	80.603012085		
		Zinc (Zn)	7440-66-6	0.000030	1250	403.015045166		
		Nickel (Ni)	7440-02-0	0.000279	11500	3748.04003906		
		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	325904.8125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001920	1000000	25791.7226562		
		External Plating Total:				0.001920	1000000	25791.7226562
		Inter. Plating Ni	7440-02-0	0.000300	1000000	4030.15087891		
		Inter. Plating Ag	7440-22-4	0.000000	0	0		
		Internal Plating Total:				0.000300	1000000	4030.15087891
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000792	750000	10639.5966797		
		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)		0.000264	250000	3546.5324707		
Die Attach Total:				0.001056	1000000	14186.1298828		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004571	103000	61406.0625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.039720	895000	533591.9375		
		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	1195.61132812		
		Encapsulation Total:				0.044380	1000000	596193.625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2485.25952148		
					TOTAL MASS (g) :	0.074439		