

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3909IMSE#PBF

(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g): 0.036064

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	0.001437	1000000	39845.8007812		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	383900.59375		
		Iron (Fe)	7439-89-6	0.000341	24000	9455.40625		
		Phosphorus (P)	7723-14-0	0.000004	300	110.913856506		
		Zinc (Zn)	7440-66-6	0.000010	700	277.284606934		
		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:				0.014200	1000000	393744.15625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	19687.9023438		
		External Plating Total:				0.000710	1000000	19687.9023438
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2384.64794922		
		Internal Plating Total:				0.000086	1000000	2384.64794922
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000552	750000	15306.1123047		
		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)		0.000184	250000	5102.03759766		
Die Attach Total:				0.000736	1000000	20408.1503906		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	67629.71875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015571	830000	431759.90625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000657	35000	18217.6015625		

		Carbon Black (C)	1333-86-4	0.000094	5000	2606.47583008
		Encapsulation Total:		0.018761	1000000	520213.71875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000134	1000000	3715.61401367
					TOTAL MASS (g):	0.036064