

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4259ACGW#PBF

(Engineering Calculation)

SSOP

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TOTAL MASS (g): 0.688458

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	0.006421	1000000	7874.171875	
Die Coat	Dow Corning	Silicone	69830-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.192153	975000	279106.28125	
		Iron (Fe)	7439-89-6	0.004730	24000	6870.42529297	
		Phosphorus (P)	7723-14-0	0.000059	300	85.6987457275	
		Zinc (Zn)	7440-66-6	0.000138	700	2004.447921753	
		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:		0.197088	1000000	286262.875
Plating	PMI	Enter. Plating Pb	7439-92-1	0.000000	0	0	
		Enter. Plating Sn	7440-31-5	0.010584	1000000	15373.6367188	
			External Plating Total:		0.010584	1000000	15373.6367188
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.001577	1000000	2290.62573242	
			Internal Plating Total:		0.001577	1000000	2290.62573242
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	0.000175	440000	254.191192627	
		Iridium (Ir)	7440-74-6	0.000000	0	0	
		Metal Oxide		0.000000	0	0	
		Antimony (Sb)	7440-36-0	0.000000	0	0	
		Resin (EP)		0.002222	560000	322.499716797	
			Die Attach Total:		0.002222	1000000	576.69878906
		Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.070896	150000
Bromine (Br)	40039-93-8			0.004726	10000	6864.61523438	
Silica (SiO2)	60676-86-0			0.382838	810000	556080.3125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.014179	30000	20995.296875	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000000	0	0	
	Encapsulation Total:				0.472639	1000000	686518.125
Bond Wire Estimated	APW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000760	1000000	1183.9161377	

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