

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1863LCGN#PBF

(Engineering Calculation)

SSOP

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TOTAL MASS (g): 0.083274

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	0.004128	1000000	49691.239375
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	359451.625
		Iron (Fe)	7439-89-6	0.000737	24000	8850.29394531
		Phosphorus (P)	7723-14-0	0.000009	300	108.076858521
		Zinc (Zn)	7440-66-6	0.000021	700	252.179336548
		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:		0.030700	1000000	368662.15625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.002272	1000000	27284.3652344
		External Plating Total:		0.002272	1000000	27284.3652344
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000246	1000000	2954.10083008
		Internal Plating Total:		0.000246	1000000	2954.10083008
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001132	750000	13593.6660136
		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)		0.000777	250000	4527.21923828
		Die Attach Total:		0.001509	1000000	18120.8847656
Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.006623	150000	79532.5546875
		Bromine (Br)	40093-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.036203	820000	434745.15625
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.001104	25000	13257.4277344
		Carbon Black (C)	1333-86-4	0.000221	5000	2653.88720703
		Encapsulation Total:		0.044151	1000000	530189.0625
Band Wire Estimated	AFW/TANAKA/ Kti	Gold (Au)	7440-57-5	0.000258	1000000	3098.203125

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