

LINEAR TECHNOLOGY MATERIALS DECLARATION

lct1458lcs#trpbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.756053

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	0.010223	1000000	13521.5322266
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.184353	975000	243835.9375
		Iron (Fe)	7439-89-6	0.004538	24000	6002.22167969
		Phosphorus (P)	7723-14-0	0.000057	300	75.3915023804
		Zinc (Zn)	7440-66-6	0.000132	700	174.59085083
		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:		0.189080	1000000	250088.15625
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.008359	1000000	11056.5742188
		External Plating Total:		0.008359	1000000	11056.5742188
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001513	1000000	2001.18151855
		Internal Plating Total:		0.001513	1000000	2001.18151855
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.002201	750000	2911.16992188
		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)		0.000734	250000	970.830932617
		Die Attach Total:		0.002935	1000000	3882.00097656
Encapsulation	FILLED EPOXY RESIN	Resin (EP)		0.081459	150000	107742.390625
		Bromine (Br)	40039-93-8	0.005431	10000	7183.35546875
		Silica (SiO2)	60676-86-0	0.439879	810000	581809.4375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.016292	30000	21548.7421875
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000000	0	0
		Encapsulation Total:		0.543061	1000000	718283.9375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000882	1000000	1166.58435059
					TOTAL MASS (g) :	0.756053