

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1458lisw#pbf		(Engineering Calculation)				SOIC WIDE	
(printed on: 2020-07-11 16:33:21)					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