

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1440cs8#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 18:20:25)

TOTAL MASS (g) : 0.072363

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	0.001358	1000000	18766.5332031		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	326866.59375		
		Iron (Fe)	7439-89-6	0.000582	24000	8042.80029297		
		Phosphorus (P)	7723-14-0	0.000007	300	96.7347183228		
		Zinc (Zn)	7440-66-6	0.000017	700	234.9271698		
		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:				0.024259	1000000	335241.0625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20408.9785156		
		External Plating Total:				0.001477	1000000	20408.9785156
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000068	1000000	939.708679199		
Internal Plating Total:				0.000068	1000000	939.708679199		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000533	750000	7365.65722656		
		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)		0.000178	250000	2459.82543945		
Die Attach Total:				0.000711	1000000	9825.48339844		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	91994.71875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	502909.96875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	15339.3603516		
		Carbon Black (C)	1333-86-4	0.000222	5000	3067.87231445		
		Encapsulation Total:				0.044381	1000000	613311.875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1506.29772949		
					TOTAL MASS (g) :	0.072363		