

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1397cs#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 20:09:00)

TOTAL MASS (g) : 0.135823

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	0.001100	1000000	8098.74951172
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	352744.6875
		Iron (Fe)	7439-89-6	0.001179	24000	8680.38671875
		Phosphorus (P)	7723-14-0	0.000015	300	110.437484741
		Zinc (Zn)	7440-66-6	0.000034	700	250.324981689
		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:		0.049139	1000000	361785.84375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.002585	1000000	19035.28125
		External Plating Total:		0.002585	1000000	19035.28125
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2893.4621582
		Internal Plating Total:		0.000393	1000000	2893.4621582
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000507	750000	3732.78710938
		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)		0.000169	250000	1244.26245117
		Die Attach Total:		0.000676	1000000	4977.04980469
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010624	130000	78219.1875
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.067828	830000	499383.59375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.002860	35000	21056.7460938
		Carbon Black (C)	1333-86-4	0.000409	5000	3011.26220703
		Encapsulation Total:		0.081721	1000000	601670.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000209	1000000	1538.7623291
					TOTAL MASS (g) :	0.135823