

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1693-1cs8#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 17:14:02)

TOTAL MASS (g) : 0.071664

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	0.001116	1000000	15572.7050781		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	330054.84375		
		Iron (Fe)	7439-89-6	0.000582	24000	8121.24902344		
		Phosphorus (P)	7723-14-0	0.000007	300	97.6782608032		
		Zinc (Zn)	7440-66-6	0.000017	700	237.21862793		
		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	338510.96875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	20608.046875		
		External Plating Total:				0.001477	1000000	20608.046875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2707.08300781		
		Internal Plating Total:				0.000194	1000000	2707.08300781
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000056	440000	781.426086426		
		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)		0.000072	560000	1004.69067383		
Die Attach Total:				0.000128	1000000	1786.1169922		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	92892.03125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	507815.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	15488.9804688		
		Carbon Black (C)	1333-86-4	0.000222	5000	3097.79638672		
		Encapsulation Total:				0.044381	1000000	619294.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1520.98999023		
					TOTAL MASS (g) :	0.071664		