

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1148hvcs-3.3#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 18:27:20)

TOTAL MASS (g) : 0.139061

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	0.003629	1000000	26096.375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	344531.15625		
		Iron (Fe)	7439-89-6	0.001179	24000	8478.26660156		
		Phosphorus (P)	7723-14-0	0.000015	300	107.865974426		
		Zinc (Zn)	7440-66-6	0.000034	700	244.496246338		
		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	353361.75		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	18592.0507812		
		External Plating Total:				0.002585	1000000	18592.0507812
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2826.08886719		
Internal Plating Total:				0.000393	1000000	2826.08886719		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001040	750000	7478.70800781		
		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)		0.000347	250000	2495.29980469		
Die Attach Total:				0.001387	1000000	9974.0078125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb Free	Resin (EP)		0.008417	103000	60527.1992188		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.073139	895000	525947.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000163	2000	1172.14367676		
		Encapsulation Total:				0.081719	1000000	587646.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000209	1000000	1502.93273926		
					TOTAL MASS (g) :	0.139061		