

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1645is#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 18:12:11)

TOTAL MASS (g) : 0.138115

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	0.002895	1000000	20960.7246094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.047911	975000	346890.96875		
		Iron (Fe)	7439-89-6	0.001179	24000	8536.33691406		
		Phosphorus (P)	7723-14-0	0.000015	300	108.604789734		
		Zinc (Zn)	7440-66-6	0.000034	700	246.170883179		
		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	355782.0625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002585	1000000	18719.3945312		
		External Plating Total:				0.002585	1000000	18719.3945312
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000393	1000000	2845.44555664		
Internal Plating Total:				0.000393	1000000	2845.44555664		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000880	750000	6371.48144531		
		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)		0.000293	250000	2121.41357422		
Die Attach Total:				0.001173	1000000	8492.89453125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.010624	130000	76921.15625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.067828	830000	491096.40625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.002860	35000	20707.3125		
		Carbon Black (C)	1333-86-4	0.000409	5000	2961.29077148		
		Encapsulation Total:				0.081721	1000000	591686.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000209	1000000	1513.22680664		
					TOTAL MASS (g) :	0.138115		