LINEAR TECHNOLOGY MATERIALS DECLARATION

lt1117cst#trpbf **(Engineering Calculation)** **SOT-223**

(printed on: 2020-07-11 17:30:22) **TOTAL MASS (g): 0.11697**

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	**0.002855**	**1000000**	**24407.8886719**
Die Coat	Dow Corning	Silicone	69430-27-9	**0.000000**	**0**	**0**
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	535973.25
		Iron (Fe)	7439-89-6	0.001543	24000	13191.3720703
		Phosphorus (P)	7723-14-0	0.000019	300	162.434265137
		Zinc (Zn)	7440-66-6	0.000045	700	384.712768555
		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:		**0.064300**	**1000000**	**549711.75**
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13758.953125
		External Plating Total:		**0.001609**	**1000000**	**13758.953125**
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4394.27490234
		Internal Plating Total:		**0.000514**	**1000000**	**4394.27490234**
Die Attach	Solder Wire Dia 0.3mm *100m 95Pb/5Sn	Silver (Ag)	7440-22-4	0.000000	0	0
		Tin (Sn)	7440-31-5	0.000077	50000	658.286193848
		Lead (Pb)	7439-92-1	0.001466	950000	12533.0859375
		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)		0.000000	0	0
		Die Attach Total:		**0.001543**	**1000000**	**13191.3720703**
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	40505.9804688
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.041170	895000	351969.40625
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000092	2000	786.523864746
		Encapsulation Total:		**0.046000**	**1000000**	**393261.90625**
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	**0.000149**	**1000000**	**1273.82666016**
					TOTAL MASS (g):	**0.11697**