

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1121IST-5#PBF

(Engineering Calculation)

SOT-223

(printed on: 2014-01-19 21:46:11)

TOTAL MASS (g): 0.11525

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	0.001705	1000000	14776.5224609		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	543972.125		
		Iron (Fe)	7439-89-6	0.001543	24000	13388.2402344		
		Phosphorus (P)	7723-14-0	0.000019	300	164.858428955		
		Zinc (Zn)	7440-66-6	0.000045	300	390.454193115		
		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:			0.064206	1000000	857915.6875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13964.2910156		
			External Plating Total:			0.001609	1000000	13964.2910156
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4459.8549219		
			Internal Plating Total:			0.000514	1000000	4459.8549219
Die Attach	95 Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000054	50000	468.545043945		
		Lead (Pb)	7439-92-1	0.001033	950000	8963.09179688		
		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:			0.001087	1000000	9431.63709531
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.004735	1030000	41110.4882812
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.041170	895000	357222.21875		
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	798.261962891		
	Encapsulation Total:					0.046000	1000000	399130.96875
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.000037	1000000	321.00130615		

TOTAL MASS (g):

0.115250