

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1178IN8#PBF

(Engineering Calculation)

FDP

(printed on: 2014-01-19 21:51:28)

TOTAL MASS (g): 0.501296

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	0.004091	1000000	7981.20664082		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000223	1000000	444.84664917		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.089088	580000	177715.234375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.064512	420000	128690.34375		
		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:				0.153600	1000000	306405.59375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.012410	1000000	24756.3964844		
		External Plating Total:				0.012410	1000000	24756.3964844
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001228	1000000	2449.64892578		
		Internal Plating Total:				0.001228	1000000	2449.64892578
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001102	750000	2198.30053711		
		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)		0.000167	250000	712.101929711		
		Die Attach Total:				0.001469	1000000	2930.40258709
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.044291	135000	88352.9296875
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.282148	860000	56286.75		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001640	5000	3271.51806641		
Encapsulation Total:						0.328079	1000000	654461.125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000286	1000000	576.520812988		

TOTAL MASS (g): 0.501296