

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSCP

LT1614IMS8#PBF

(printed on: 2014-01-19 22:10:10)

TOTAL MASS (g): 0.027682

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	0.002273	1000000	82111.846875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	376887.15625		
		Iron (Fe)	7439-89-6	0.000257	24000	9284.00292969		
		Phosphorus (P)	7723-14-0	0.000003	300	108.373573303		
		Zinc (Zn)	7440-66-6	0.000007	700	252.871688843		
		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:				0.010700	1000000	386532.4375
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	25649.2144531		
External Plating Total:						0.000710	1000000	25649.2144531
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	3106.70898438		
Internal Plating Total:						0.000086	1000000	3106.70898438
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000751	750000	27129.5175781		
		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)		0.002550	250000	9031.1318594		
		Die Attach Total:				0.001091	1000000	36160.6523438
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001659	130000	59930.5859375
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.010591	830000	382594.84375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16147.6621094		
Carbon Black (C)	1333-86-4			0.000064	5000	2311.96972656		
Encapsulation Total:						0.012761	1000000	460985.03125
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000151	1000000	5454.80322266

TOTAL MASS (g): 0.027682