

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2379IMS-18#PBF

(Engineering Calculation)

MSOP

(printed on: 2014-01-20 01:34:40)

TOTAL MASS (g): 0.03746

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	0.002251	1000000	62760.234375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	369594		
		Iron (Fe)	7439-89-6	0.000355	25000	9476.76855469		
		Phosphorus (P)	7723-14-0	0.000004	300	106.78049469		
		Zinc (Zn)	7440-66-6	0.000010	700	266.95123291		
		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:				0.014214	1001000	379444.6875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	18954.2050781		
External Plating Total:						0.000710	1000000	18954.2050781
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000066	1000000	2295.78076172		
Internal Plating Total:						0.000066	1000000	2295.78076172
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000777	750000	20742.1113281		
		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)		0.002259	250000	6914.03662109		
		Die Attach Total:				0.002259	1000000	27656.1464844
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.002439	130000	65109.4023438
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.015571	830000	415669.78125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000657	35000	17538.6972656		
Carbon Black (C)	1333-86-4			0.000094	5000	2509.34155273		
Encapsulation Total:						0.018761	1000000	500827.1875
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000302	1000000	8061.92675781

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