

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4226CMS-1#PBF

(Engineering Calculation)

MSOP

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TOTAL MASS (g): 0.036547

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	0.001757	1000000	48975.8507812	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	378827.03125	
		Iron (Fe)	7439-89-6	0.000355	25000	9713.51269531	
		Phosphorus (P)	7723-14-0	0.000004	300	109.448016194	
		Zinc (Zn)	7440-66-6	0.000010	700	271.6208667	
		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	388923.59375
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	19427.7089844	
External Plating Total:					0.000710	1000000	19427.7089844
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000086	1000000	2353.1328125	
Internal Plating Total:					0.000086	1000000	2353.1328125
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000630	750000	17238.0664062	
		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)		0.000210	250000	5746.02197266	
		Die Attach Total:			0.000840	1000000	22984.0879906
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.002439	300000
Bromine (Br)	40093-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.015571	830000	426053.84375	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000657	35000	17976.8398438	
Carbon Black (C)	1333-86-4			0.000094	5000	2572.02808059	
Encapsulation Total:					0.018761	1000000	513338.625
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000179	1000000

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