

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC&MMSE#PBF

(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g): 0.038129

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	0.002979	1000000	78129.4609375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	361109.21875		
		Iron (Fe)	7439-89-6	0.000341	24000	8943.31835938		
		Phosphorus (P)	7723-14-0	0.000004	300	104.906095934		
		Zinc (Zn)	7440-66-6	0.000010	700	262.26799502		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.014200	1000000	372419.71875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	18621.640625		
External Plating Total:						0.000710	1000000	18621.640625
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	2255.49951172		
Internal Plating Total:						0.000086	1000000	2255.49951172
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000911	750000	23892.5605469		
		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)		0.000104	250000	7972.92871094		
		Die Attach Total:				0.001215	1000000	21865.4882812
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001932	103000	50670.0625
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.016790	895000	440147		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000038	2000	996.616088867		
Encapsulation Total:						0.018760	1000000	492013.625
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000179	1000000	4694.5809375

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