

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP

LT1999IMS8-10#TRPBF

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TOTAL MASS (g): 0.027152

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	0.001914	1000000	70491.976625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.000206	580000	228564.90625		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.004944	420000	165512.515625		
		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	394077.40625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	26149.9804688		
External Plating Total:						0.000710	1000000	26149.9804688
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	3167.35107422		
Internal Plating Total:						0.000086	1000000	3167.35107422
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000669	750000	24639.0449219		
		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)		0.000223	250000	8213.015625		
		Die Attach Total:				0.000892	1000000	32852.0625
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001659	130000	61100.4140625
Bromine (Br)	40039-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.010591	830000	390063		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16462.8013281		
Carbon Black (C)	1333-86-4			0.000064	5000	2357.09838867		
Encapsulation Total:						0.012761	1000000	469983.34375
Lead Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000089	1000000	3277.84008789		

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