

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1999ims8-10#pbf

(Engineering Calculation)

MSOP

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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	70491.9765625	
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	0.006206	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	0.004494	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	MULTI-AROMATIC RESIN Br/Sb 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	16462.8613281	
		Carbon Black (C)		1333-86-4	0.000064	5000	2357.09838867	
		Encapsulation Total:				0.012761	1000000	469983.34375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	3277.84008789		
						TOTAL MASS (g) :	0.027152	