

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3971EMSE#TRPBF

(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g): 0.027132

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	0.001822	1000000	6753.1171875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	38427.125	
		Iron (Fe)	7439-89-6	0.000257	24000	9472.20117188	
		Phosphorus (P)	7723-14-0	0.000003	300	110.5704422	
		Zinc (Zn)	7440-66-6	0.000007	700	257.997711182	
		Nickel (Ni)	7440-02-0	0.000000	0	0	
		Silicon (Si)	7440-21-3	0.000000	0	0	
		Magnesium (Mg)	7439-98-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000000	0	0	
		Lead Frame Total:			0.010700	1000000	39436.79375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26169.2578125	
		External Plating Total:			0.000710	1000000	26169.2578125
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3169.68603516	
		Internal Plating Total:			0.000086	1000000	3169.68603516
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000648	750000	2383.2148438	
		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)		0.000216	250000	7961.07226662	
		Die Attach Total:			0.000664	1000000	21844.2099625
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001659	130000
Bromine (Br)	40093-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.010591	830000	390350.53125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000447	35000	16474.9960938	
Carbon Black (C)	1333-86-4			0.000064	5000	2358.83618164	
Encapsulation Total:					0.012761	1000000	470329.78125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000189	1000000	6965.93798828	

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