

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP-Exposed

LT4320IMSE#TRPBF

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TOTAL MASS (g): 0.037398

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	0.002283	1000000	63719.5414062		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	370206.71875		
		Iron (Fe)	7439-89-6	0.000341	24000	9118.12890625		
		Phosphorus (P)	7723-14-0	0.000004	300	106.957511902		
		Zinc (Zn)	7440-66-6	0.000010	700	267.393798828		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-99-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.014290	1000000	379699.1875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	18985.6209531		
External Plating Total:						0.000710	1000000	18985.6209531
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	2299.58642578		
Internal Plating Total:						0.000086	1000000	2299.58642578
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000774	750000	20696.28125		
		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)		0.002558	250000	6898.75927734		
		Die Attach Total:				0.001022	1000000	27995.0371094
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001932	103000	51660.4804688
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.016790	895000	448954.1875		
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	1016.09631348		
Encapsulation Total:						0.018760	1000000	501630.71875
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000227	1000000	6069.83886719		

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