

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SSOP

LT4254IGN#PBF

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TOTAL MASS (g): 0.082391

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	0.002421	1000000	4162.899375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	363303.90625		
		Iron (Fe)	7439-89-6	0.000737	24000	8945.14355469		
		Phosphorus (P)	7723-14-0	0.000009	300	109.235137939		
		Zinc (Zn)	7440-66-6	0.000021	700	254.881973267		
		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:				0.030700	1000000	372643.15625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.002272	1000000	27576.7734375		
External Plating Total:						0.002272	1000000	27576.7734375
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000246	1000000	2985.76025391		
Internal Plating Total:						0.000246	1000000	2985.76025391
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001000	750000	12137.2373047		
		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)		0.000133	250000	4041.69970703		
		Die Attach Total:				0.001133	1000000	16178.9375
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006623	150000	80384.9140625
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.036203	820000	439404.40625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001104	25000	13399.5097656		
Carbon Black (C)	1333-86-4			0.000221	5000	2682.3293457		
Encapsulation Total:						0.044151	1000000	535871.125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000258	1000000	3121.40673828		

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