

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1118CST-5#TRPBF

(Engineering Calculation)

SOT-223

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TOTAL MASS (g): 0.115992

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	0.002208	1000000	19028.7304688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	540492.3125		
		Iron (Fe)	7439-89-6	0.001543	24000	13302.5966797		
		Phosphorus (P)	7723-14-0	0.000019	300	163.803833008		
		Zinc (Zn)	7440-66-6	0.000045	700	387.956481934		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		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:				0.064200	1000000	854346.6875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001609	1000000	13874.9609375		
External Plating Total:				0.001609	1000000	13874.9609375		
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000514	1000000	4431.32519531		
Internal Plating Total:				0.000514	1000000	4431.32519531		
Die Attach	95 Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000065	50000	560.381591797		
		Lead (Pb)	7439-92-1	0.001233	950000	10630.0068359		
		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)		0.000000	0	0		
		Die Attach Total:				0.001298	1000000	11190.3886719
		Encapsulation	MULTI-AROMATIC RESIN (BIS/EP) FREE	Resin (EP)		0.004738	103000	40847.5078125
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.041170	895000	354937.0625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000092	2000	793.155456543		
Encapsulation Total:				0.046000	1000000	396577.71875		
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.000063	1000000	543.139038886		

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0.115992