

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1813ISS#PBF

(Engineering Calculation)

SOC

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TOTAL MASS (g): 0.071764

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	0.000025	1000000	11496.0308059		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	329594.90625		
		Iron (Fe)	7439-89-6	0.000582	24000	8109.93261719		
		Phosphorus (P)	7723-14-0	0.000007	300	97.5421524048		
		Zinc (Zn)	7440-66-6	0.000017	700	236.888061523		
		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:				0.024259	1000000	338019.25
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001477	1000000	20579.2300781		
External Plating Total:						0.001477	1000000	20579.2300781
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000194	1000000	2703.31079102		
Internal Plating Total:						0.000194	1000000	2703.31079102
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000189	750000	5420.55615234		
		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)		0.000130	250000	1811.49707031		
		Die Attach Total:				0.000519	1000000	7232.05322266
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.006657	150000	92762.578125
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.036392	820000	507107.6875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001110	25000	15467.3964844		
Carbon Black (C)	1333-86-4			0.000222	5000	3093.47949219		
Encapsulation Total:						0.044381	1000000	618431.125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000109	1000000	1518.87060547		

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