

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC8143FSW#PBF

(Engineering Calculation)

S0IC WIDE

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TOTAL MASS (g): 0.247564

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	0.002153	1000000	12736.0020312
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.138021	975000	557515.6875
		Iron (Fe)	7439-89-6	0.003397	24000	13721.6835938
		Phosphorus (P)	7723-14-0	0.000042	300	169.65284729
		Zinc (Zn)	7440-66-6	0.000099	700	399.895996004
		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:		0.141459	1000000
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.004771	1000000	19273.2441406
			External Plating Total:	0.004771	1000000	19273.2441406
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.001132	1000000	4572.54833984
			Internal Plating Total:	0.001132	1000000	4572.54833984
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000934	750000	3772.75634766
		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)		0.000111	250000	1256.23901367
			Die Attach Total:	0.001245	1000000	5028.99606547
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.009816
Bromine (Br)	40093-93-8			0.000000	0	0
Silica (SiO2)	60676-86-0			0.085294	895000	344532.625
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0
Metal Hydroxide				0.000000	0	0
Carbon Black (C)	1333-86-4			0.000191	2000	771.516540527
	Encapsulation Total:			0.095301	1000000	384954.4375
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000403	1000000	1627.85949707

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