

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2143CUP-14#TRPBF (Engineering Calculation) QFN 9mm X 9mm Exp. Pad

(printed on: 2014-01-20 02:47:48)

TOTAL MASS (g): 0.224145

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	0.005163	1000000	23824.1679688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.104491	975000	466175.34375		
		Iron (Fe)	7439-89-6	0.002572	24000	11474.7001953		
		Phosphorus (P)	7723-14-0	0.000032	300	142.76451626		
		Zinc (Zn)	7440-66-6	0.000075	700	334.604431152		
		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:				0.107170	1000000	478127.40625
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.003192	1000000	14241.9785156		
External Plating Total:						0.003192	1000000	14241.9785156
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.002279	1000000	10167.5117188		
Internal Plating Total:						0.002279	1000000	10167.5117188
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001779	750000	7936.81689453		
		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)		0.002593	250000	2645.66546875		
		Die Attach Total:				0.002272	1000000	10582.421875
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.013460	130000	60050.3398438
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.089044	860000	397260.1875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001035	10000	4617.54052734		
Encapsulation Total:						0.103539	1000000	461928.0625
Band Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000430	1000000	1918.39859587

TOTAL MASS (g): 0.224145