

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC23811DE-16#PBF

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

(printed on: 2014-01-20 01:34:50)

TOTAL MASS (g): 0.03143

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	0.001567	1000000	4987.1875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	41782.21875		
		Iron (Fe)	7439-89-6	0.00023	24000	10276.8798828		
		Phosphorus (P)	7723-14-0	0.000004	300	127.267860413		
		Zinc (Zn)	7440-66-6	0.000009	700	286.35269165		
		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:				0.013469	1000000	428542.71875
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000626	1000000	19910.0644531		
External Plating Total:						0.000626	1000000	19910.0644531
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000362	1000000	9608.7246938		
Internal Plating Total:						0.000362	1000000	9608.7246938
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000777	750000	24721.7832011		
		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)		0.002559	250000	8240.59472656		
		Die Attach Total:				0.003296	1000000	32962.379962
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001876	130000	59688.6289062
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.012410	860000	394848.5625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000144	10000	4581.64306641		
Encapsulation Total:						0.014430	1000000	459118.84375
Lead Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000000	0	0		

TOTAL MASS (g): 0.031430