

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2378IDE-20#TRPBF

(Engineering Calculation)

DEN 4mm X 3mm Exp. Pad

(printed on: 2014-01-20 03:03:02)

TOTAL MASS (g): 0.030567

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	51264.828125		
Die Coat	Dow Corning	Silicone	69830-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	428649.59375		
		Iron (Fe)	7439-89-6	0.000323	24000	10567.03125		
		Phosphorus (P)	7723-14-0	0.000004	300	130861.068726		
		Zinc (Zn)	7440-66-6	0.000009	700	294437.008447		
		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:			0.013469	1000000	440641.9375
Plating	PMI	Enter. Plating Pb	7439-92-1	0.000000	0	0		
		Enter. Plating Sn	7440-31-5	0.000626	1000000	20472.1914062		
			External Plating Total:			0.000626	1000000	20472.1914062
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	9880.01074219		
			Internal Plating Total:			0.000302	1000000	9880.01074219
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000009	50000	294437.008447		
		Iridium (Ir)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000052	300000	1701.19384766		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000112	650000	3664.10986328		
			Die Attach Total:			0.000173	1000000	5659.74072266
		Encapsulation	MULTIAROMATIC RESIN B/S/B-FREE	Resin (EP)		0.001876	130000	61373.8398438
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.012410	860000	405996.46875		
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	4710.99853516		
	Encapsulation Total:			0.014430	1000000	472081.3325		
Bond Wire Estimated	APW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000000	0	0		

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