LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3112mpdhd#trpbf (Engineering Calculation) DFN 5mm X 4mm Exp. Pad

(printed on: 2020-07-11 18:50:20) **TOTAL MASS (g): 0.054838**

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	**0.003500**	**1000000**	**63824.6679688**
Die Coat	Dow Corning	Silicone	69430-27-9	**0.000000**	**0**	**0**
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023117	975000	421552.8125
		Iron (Fe)	7439-89-6	0.000569	24000	10376.0673828
		Phosphorus (P)	7723-14-0	0.000007	300	127.649330139
		Zinc (Zn)	7440-66-6	0.000017	700	310.005523682
		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:		**0.023710**	**1000000**	**432366.53125**
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.001124	1000000	20491.9648438
		External Plating Total:		**0.001124**	**1000000**	**20491.9648438**
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000522	1000000	9518.99316406
		Internal Plating Total:		**0.000522**	**1000000**	**9518.99316406**
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001421	750000	25912.8144531
		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)		0.000474	250000	8643.68261719
		Die Attach Total:		**0.001895**	**1000000**	**34556.4960938**
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.003117	130000	56840.421875
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.020623	860000	376073.1875
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000240	10000	4376.54833984
		Encapsulation Total:		**0.023980**	**1000000**	**437290.125**
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	**0.000107**	**1000000**	**1951.21130371**
					TOTAL MASS (g):	**0.054838**