LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2858hdd-2#trpbf **(Engineering Calculation)** **DFN 3mm X 3mm Exp. Pad**

(printed on: 2020-07-11 16:27:04) **TOTAL MASS (g):** 0.023732

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	**0.001553**	**1000000**	**65438.0703125**
Die Coat	Dow Corning	Silicone	69430-27-9	**0.000000**	**0**	**0**
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009711	975000	409188.09375
		Iron (Fe)	7439-89-6	0.000239	24000	10070.6367188
		Phosphorus (P)	7723-14-0	0.000003	300	126.409667969
		Zinc (Zn)	7440-66-6	0.000007	700	294.955871582
		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:		**0.009960**	**1000000**	**419680.125**
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000455	1000000	19187.4140625
		External Plating Total:		**0.000455**	**1000000**	**19187.4140625**
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000225	1000000	9480.72460938
		Internal Plating Total:		**0.000225**	**1000000**	**9480.72460938**
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000764	750000	32192.3261719
		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)		0.000255	250000	10744.8212891
		Die Attach Total:		**0.001019**	**1000000**	**42937.1484375**
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001362	130000	57389.9882812
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.009013	860000	379776.78125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000105	10000	4424.33837891
		Encapsulation Total:		**0.010480**	**1000000**	**441591.09375**
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	**0.000040**	**1000000**	**1685.4621582**
					TOTAL MASS (g):	**0.023732**