

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1010cdd#trpbf				(Engineering Calculation)		DFN 3mm X 3mm Exp. Pad	
(printed on: 2020-07-11 19:58:45)						TOTAL MASS (g) : 0.022946	
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	0.001253	1000000	54605.5703125	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	407471.75	
		Iron (Fe)	7439-89-6	0.000230	24000	10023.3691406	
		Phosphorus (P)	7723-14-0	0.000003	300	130.739608765	
		Zinc (Zn)	7440-66-6	0.000007	700	305.059082031	
		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:		0.009590	1000000	417930.90625	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000437	1000000	19060.7597656	
		External Plating Total:		0.000437	1000000	19060.7597656	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000218	1000000	9500.41015625	
		Internal Plating Total:		0.000218	1000000	9500.41015625	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000672	750000	29285.6699219	
		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)		0.000224	250000	9761.890625	
		Die Attach Total:		0.000896	1000000	39047.5625	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001368	130000	59617.2578125	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.009047	860000	394267.03125	
		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	4575.88574219	
		Encapsulation Total:		0.010520	1000000	458460.1875	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	1394.55566406	
					TOTAL MASS (g) :		0.022946