

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t6023hdd#trpbf			(Engineering Calculation)			DFN 3mm X 3mm Exp. Pad	
(printed on: 2020-07-11 17:20:44)					TOTAL MASS (g) :		0.023783
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	0.001838	1000000	77280.875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.009350	975000	393131.71875	
		Iron (Fe)	7439-89-6	0.000230	24000	9670.62109375	
		Phosphorus (P)	7723-14-0	0.000003	300	126.138534546	
		Zinc (Zn)	7440-66-6	0.000007	700	294.32321167	
		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	403222.8125	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000437	1000000	18389.9628906	
		External Plating Total:		0.000437	1000000	18389.9628906	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000218	1000000	9166.06640625	
		Internal Plating Total:		0.000218	1000000	9166.06640625	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000861	750000	36201.7578125	
		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)		0.000287	250000	12067.2519531	
		Die Attach Total:		0.001148	1000000	48269.0078125	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001368	130000	57519.1679688	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.009047	860000	380391.71875	
		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	4414.84863281	
		Encapsulation Total:		0.010520	1000000	442325.78125	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000032	1000000	1345.47753906	
					TOTAL MASS (g) :		0.023783