

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2050hvcs6#trmpbf			(Engineering Calculation)			TSOT-23	
(printed on: 2020-07-11 19:18:05)					TOTAL MASS (g) :		0.012542
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	0.000567	1000000	45208.9804688	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004582	975000	365339.5625	
		Iron (Fe)	7439-89-6	0.000113	24000	9009.90234375	
		Phosphorus (P)	7723-14-0	0.000001	300	79.7336502075	
		Zinc (Zn)	7440-66-6	0.000003	700	239.200942993	
		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:		0.004699	1000000	374668.40625	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000644	1000000	51329.0117188	
		External Plating Total:		0.000644	1000000	51329.0117188	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6378.69140625	
		Internal Plating Total:		0.000080	1000000	6378.69140625	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000409	750000	32611.0605469	
		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)		0.000136	250000	10843.7763672	
		Die Attach Total:		0.000545	1000000	43454.8359375	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000772	130000	61554.3710938	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.004930	830000	393086.84375	
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0	
		Metal Hydroxide		0.000208	35000	16584.5976562	
		Carbon Black (C)	1333-86-4	0.000030	5000	2392.00927734	
		Encapsulation Total:		0.005940	1000000	473617.84375	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000067	1000000	5342.15429688	
					TOTAL MASS (g) :		0.012542