

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TSOT-23

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TOTAL MASS (g) : 0.01256

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	0.000523	1000000	41641.15625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004582	975000	364817.90625		
		Iron (Fe)	7439-89-6	0.000113	24000	8997.03710938		
		Phosphorus (P)	7723-14-0	0.000001	300	79.6197891235		
		Zinc (Zn)	7440-66-6	0.000003	700	238.859405518		
		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	374133.4375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000663	1000000	52763.2421875		
		External Plating Total:				0.000663	1000000	52763.2421875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6369.58398438		
Internal Plating Total:				0.000080	1000000	6369.58398438		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000395	750000	31449.8203125		
		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)		0.000132	250000	10509.8134766		
Die Attach Total:				0.000527	1000000	41959.6328125		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000777	130000	61864.5820312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.004963	830000	395153.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000209	35000	16640.5390625		
		Carbon Black (C)	1333-86-4	0.000030	5000	2388.59375		
		Encapsulation Total:				0.005979	1000000	476046.78125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000089	1000000	7086.16210938		
					TOTAL MASS (g) :	0.01256		