

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TSOT-23

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TOTAL MASS (g) : 0.011903

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	0.000492	1000000	41333.3007812
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004485	975000	376788.28125
		Iron (Fe)	7439-89-6	0.000110	24000	9241.18554688
		Phosphorus (P)	7723-14-0	0.000001	300	84.0107650757
		Zinc (Zn)	7440-66-6	0.000003	700	252.032333374
		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:		0.004599	1000000	386365.53125
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000635	1000000	53366.640625
		External Plating Total:		0.000635	1000000	53366.640625
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000080	1000000	6720.86132812
		Internal Plating Total:		0.000080	1000000	6720.86132812
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0
		Tin (Sn)	7440-31-5	0.000000	0	0
		Lead (Pb)	7439-92-1	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.000004	50000	336.043060303
		Indium (In)	7440-74-6	0.000000	0	0
		Metal Oxide		0.000024	300000	2016.25866699
		Antimony (Sb)	7440-36-0	0.000000	0	0
		Resin (EP)		0.000053	650000	4452.57080078
		Die Attach Total:		0.000081	1000000	6804.87207031
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000346	58000	29067.7246094
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.005304	890000	445593.125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000298	50000	25035.2089844
		Carbon Black (C)	1333-86-4	0.000012	2000	1008.1293335
		Encapsulation Total:		0.005960	1000000	500704.21875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000056	1000000	4704.60302734
					TOTAL MASS (g) :	0.011903