

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

TSOT-23

(printed on: 2014-01-20 01:31:32)

TOTAL MASS (g): 0.012543

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	45395.378962		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.002726	580000	217336.609375		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.001974	420000	157381.671875		
		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:				0.004700	1000000	374718.28125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000644	1000000	51224.921875		
External Plating Total:						0.000644	1000000	51224.921875
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000080	1000000	6178.18310547		
Internal Plating Total:						0.000080	1000000	6178.18310547
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000409	750000	32608.4648438		
		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)		0.00136	250000	10842.9121094		
		Die Attach Total:				0.001769	1000000	43451.375
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.000772	130000	61549.46875
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.004930	830000	393055.53125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000208	35000	16583.2773438		
Carbon Black (C)	1333-86-4			0.000030	5000	2391.81860352		
Encapsulation Total:						0.005940	1000000	473580.125
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000067	1000000	5341.7281562

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