

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOT-223

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TOTAL MASS (g) : 0.116117

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	0.002236	1000000	19256.3730469		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	539910.5		
		Iron (Fe)	7439-89-6	0.001543	24000	13288.2763672		
		Phosphorus (P)	7723-14-0	0.000019	300	163.627502441		
		Zinc (Zn)	7440-66-6	0.000045	700	387.538848877		
		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:				0.064300	1000000	553749.9375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	13860.0253906		
		External Plating Total:				0.001609	1000000	13860.0253906
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4426.5546875		
Internal Plating Total:				0.000514	1000000	4426.5546875		
Die Attach	Solder Wire Dia 0.3mm *100m 95Pb/5Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000065	50000	559.778320312		
		Lead (Pb)	7439-92-1	0.001244	950000	10713.2958984		
		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)		0.000000	0	0		
Die Attach Total:				0.001309	1000000	11273.0742188		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	40803.5351562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.041170	895000	354554.96875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000092	2000	792.301635742		
		Encapsulation Total:				0.046000	1000000	396150.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000149	1000000	1283.1842041		
					TOTAL MASS (g) :	0.116117		