

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOT-223

(printed on: 2020-07-11 18:34:52)

TOTAL MASS (g) : 0.114335

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	0.001214	1000000	10617.8847656		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.062693	975000	548325.375		
		Iron (Fe)	7439-89-6	0.001543	24000	13495.3837891		
		Phosphorus (P)	7723-14-0	0.000019	300	166.177749634		
		Zinc (Zn)	7440-66-6	0.000045	700	393.578887939		
		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	562380.5625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001609	1000000	14076.0439453		
		External Plating Total:				0.001609	1000000	14076.0439453
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000514	1000000	4495.54589844		
Internal Plating Total:				0.000514	1000000	4495.54589844		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000496	750000	4338.11425781		
		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)		0.000165	250000	1443.12280273		
Die Attach Total:				0.000661	1000000	5781.23681641		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.004738	103000	41439.4882812		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.041170	895000	360081		
		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	804.650268555		
		Encapsulation Total:				0.046000	1000000	402325.09375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000037	1000000	323.609344482		
					TOTAL MASS (g) :	0.114335		