

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

(printed on: 2020-07-11 18:22:04)

TOTAL MASS (g) : 0.130469

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	0.003831	1000000	29363.375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.040238	975000	308411.25		
		Iron (Fe)	7439-89-6	0.000990	24000	7588.02929688		
		Phosphorus (P)	7723-14-0	0.000012	300	91.9761199951		
		Zinc (Zn)	7440-66-6	0.000029	700	222.275619507		
		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:				0.041269	1000000	316313.53125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002831	1000000	21695.8867188		
		External Plating Total:				0.002831	1000000	21695.8867188
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000330	1000000	2529.34326172		
Internal Plating Total:				0.000330	1000000	2529.34326172		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001080	750000	8277.85058594		
		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)		0.000360	250000	2759.28369141		
Die Attach Total:				0.001440	1000000	11037.1347656		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb Free	Resin (EP)		0.008259	103000	63302.5625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.071761	895000	550024.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000160	2000	1226.3482666		
		Encapsulation Total:				0.080180	1000000	614553.75
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000588	1000000	4506.82958984		
					TOTAL MASS (g) :	0.130469		