

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

(printed on: 2020-07-11 18:10:30)

TOTAL MASS (g) : 0.320403

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	0.001010	1000000	3152.27929688		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.111592	962000	348286.28125		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.003480	30000	10861.3173828		
		Silicon (Si)	7440-21-3	0.000754	1500	543.065917969		
		Magnesium (Mg)	7439-95-4	0.000174	1500	543.065917969		
		Tin (Sn)	7440-31-5	0.000000	0	0		
Lead Frame Total:				0.116000	1000000	362043.90625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.010584	1000000	33033.71875		
		External Plating Total:				0.010584	1000000	33033.71875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000928	1000000	2896.3515625		
Internal Plating Total:				0.000928	1000000	2896.3515625		
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	0.000053	440000	165.416625977		
		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)		0.000068	560000	212.232650757		
Die Attach Total:				0.000121	1000000	377.649261475		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.025785	135000	80476.7421875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.164260	860000	512666.6875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000955	5000	2980.62036133		
		Encapsulation Total:				0.191000	1000000	596124.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000760	1000000	2372.01196289		
					TOTAL MASS (g) :	0.320403		