

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g) : 0.036196

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	0.001409	1000000	38926.9296875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	382500.59375		
		Iron (Fe)	7439-89-6	0.000341	24000	9420.92480469		
		Phosphorus (P)	7723-14-0	0.000004	300	110.509376526		
		Zinc (Zn)	7440-66-6	0.000010	700	276.2734375		
		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:				0.014200	1000000	392308.28125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	19616.1054688		
		External Plating Total:				0.000710	1000000	19616.1054688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2375.95166016		
Internal Plating Total:				0.000086	1000000	2375.95166016		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000546	750000	15084.53125		
		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)		0.000182	250000	5028.17675781		
Die Attach Total:				0.000728	1000000	20112.7070312		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	67383.0859375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015571	830000	430185.375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000657	35000	18151.1660156		
		Carbon Black (C)	1333-86-4	0.000094	5000	2596.97045898		
		Encapsulation Total:				0.018761	1000000	518316.625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000302	1000000	8343.45800781		
					TOTAL MASS (g) :	0.036196		